09/864,711

Please scan these and index them as

"Examiner Search Notes"

Thank you.

James Martinell
Primary Examiner 1631

THIS PAGE LEFT BLANK

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: February 6, 2005, 18:40:00 ; Search time 332.654 Seconds
(without alignments)
9670.472 Million cell updates/sec

Title: US-09-864-711-1
Perfect score: 1966
Sequence: 1 caaaatggagcttgtaagaa.....atgtcaaaaaaaaaaaaaaa 1966

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1944.4	98.9	2917	4	US-09-907-794A-189	Sequence 189, App
2	1944.4	98.9	2917	4	US-09-905-125A-189	Sequence 189, App
3	1944.4	98.9	2917	4	US-09-902-775A-189	Sequence 189, App
4	1944.4	98.9	2917	4	US-09-906-700-189	Sequence 189, App
5	1944.4	98.9	2917	4	US-09-903-603A-189	Sequence 189, App
6	1944.4	98.9	2917	4	US-09-904-920A-189	Sequence 189, App
7	1944.4	98.9	2917	4	US-09-909-064-189	Sequence 189, App
8	1944.4	98.9	2917	4	US-09-905-381A-189	Sequence 189, App
9	1944.4	98.9	2917	4	US-09-906-618-189	Sequence 189, App
10	195.8	10.0	199	4	US-09-513-999C-15660	Sequence 15660, A
11	164.6	8.4	4360	1	US-08-470-350B-1	Sequence 1, Appli
12	156	7.9	167	1	US-08-700-575-39	Sequence 39, Appl
13	124.4	6.3	5943	4	US-09-976-594-272	Sequence 272, App
14	122.8	6.2	5802	3	US-09-341-587-4	Sequence 4, Appli
15	73.4	3.7	2001	3	US-09-341-587-2	Sequence 2, Appli
16	65	3.3	11272	4	US-09-341-461-1	Sequence 1, Appli
17	56.6	2.9	28720	3	US-09-341-587-7	Sequence 7, Appli
18	54.2	2.8	5021	4	US-09-285-385C-1	Sequence 1, Appli
19	52.6	2.7	3690	3	US-08-991-408-3	Sequence 3, Appli
20	52.6	2.7	3690	3	US-09-432-473-3	Sequence 3, Appli
21	52.6	2.7	3919	2	US-08-866-650-4	Sequence 4, Appli
22	52.6	2.7	3919	2	US-09-021-287-4	Sequence 4, Appli
23	52.6	2.7	3919	3	US-09-240-473-4	Sequence 4, Appli
24	51.6	2.6	4771	2	US-08-866-650-2	Sequence 2, Appli
25	51.6	2.6	4771	2	US-09-021-287-2	Sequence 2, Appli
26	51.6	2.6	4771	3	US-09-240-473-2	Sequence 2, Appli
27	51	2.6	5145	3	US-08-991-408-1	Sequence 1, Appli
28	51	2.6	5145	3	US-09-432-473-1	Sequence 1, Appli
29	48.4	2.5	1802	3	US-09-032-523-5	Sequence 5, Appli
30	48.4	2.5	1802	4	US-09-802-633-5	Sequence 5, Appli
31	48.4	2.5	2026	4	US-09-907-794A-103	Sequence 103, App
32	48.4	2.5	2026	4	US-09-905-125A-103	Sequence 103, App
33	48.4	2.5	2026	4	US-09-902-775A-103	Sequence 103, App
34	48.4	2.5	2026	4	US-09-906-700-103	Sequence 103, App
35	48.4	2.5	2026	4	US-09-903-603A-103	Sequence 103, App
36	48.4	2.5	2026	4	US-09-904-920A-103	Sequence 103, App
37	48.4	2.5	2026	4	US-09-909-064-103	Sequence 103, App
38	48.4	2.5	2026	4	US-09-905-381A-103	Sequence 103, App
39	48.4	2.5	2026	4	US-09-906-618-103	Sequence 103, App
40	47.8	2.4	4661	4	US-09-285-385C-3	Sequence 3, Appli
41	47.6	2.4	1806	4	US-09-800-729-75	Sequence 75, Appl
42	47.6	2.4	1806	4	US-10-067-422-5	Sequence 5, Appli
43	47	2.4	47	4	US-09-907-794A-193	Sequence 193, App
44	47	2.4	47	4	US-09-905-125A-193	Sequence 193, App
45	47	2.4	47	4	US-09-902-775A-193	Sequence 193, App

ALIGNMENTS

RESULT 1
US-09-907-794A-189
; Sequence 189, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-794A-189

Query Match 98.9%; Score 1944.4; DB 4; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699
```

```
Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
             |||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

```
RESULT 2
US-09-905-125A-189
; Sequence 189, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/905,125A
;  CURRENT FILING DATE:  2001-07-12
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-905-125A-189

  Query Match             98.9%;  Score 1944.4;  DB 4;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
```

```
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739
Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799
Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859
Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919
Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979
Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039
Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099
Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159
Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219
Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279
Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339
Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399
Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459
Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519
Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579
Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639
Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699
Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759
Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819
Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879
Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

```
RESULT 3
US-09-902-775A-189
; Sequence 189, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/902,775A
;  CURRENT FILING DATE:  2001-07-10
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
```

```
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-902-775A-189

  Query Match             98.9%;  Score 1944.4;  DB 4;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879
```

```
Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
              |||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

RESULT 4
US-09-906-700-189
; Sequence 189, Application US/09906700
; Patent No. 6723535
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-906-700-189

Query Match 98.9%; Score 1944.4; DB 4; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
```

```
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
                |||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917

RESULT 5
US-09-903-603A-189
; Sequence 189, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: GNE.1618P2C12
;  CURRENT APPLICATION NUMBER: US/09/903,603A
;  CURRENT FILING DATE:  2001-07-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
```

US-09-903-603A-189

Query Match 98.9%; Score 1944.4; DB 4; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy       1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy      61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
          ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy     120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy     180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy     240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy     300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy     360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy     420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy     480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy     540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy     600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy     660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy     720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy     780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy     840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy     900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy     960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy    1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy    1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy    1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy    1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy    1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy    1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy    1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy    1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy    1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy    1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy    1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy    1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy    1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy    1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy    1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy    1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
          |||||||||||||||||||||||||||||| ||||||
Db    2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

RESULT 6
US-09-904-920A-189
; Sequence 189, Application US/09904920A
; Patent No. 6806352
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,920A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-904-920A-189

Query Match 98.9%; Score 1944.4; DB 4; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy       1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
Db     960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy      61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
Db    1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy     120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
Db    1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy     180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
Db    1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy     240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
Db    1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy     300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
Db    1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy     360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
Db    1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy     420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
Db    1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy     480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
Db    1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy     540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
Db    1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy     600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
Db    1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy     660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
Db    1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy     720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
Db    1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy     780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
Db    1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy     840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
Db    1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy     900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
Db    1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy     960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
Db    1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy    1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
Db    1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy    1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
```

```
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
                ||||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

```
RESULT 7
US-09-909-064-189
; Sequence 189, Application US/09909064
; Patent No. 6818449
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/909,064
;  CURRENT FILING DATE:  2001-07-18
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-909-064-189

  Query Match             98.9%;  Score 1944.4;  DB 4;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179

Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239

Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299

Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359

Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419

Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479

Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539

Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599

Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659

Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719

Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779

Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839

Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899

Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959

Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019

Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079

Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139

Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199

Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259

Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319

Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379

Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439

Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499

Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559

Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619

Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679

Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739

Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799

Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859

Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919

Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957

Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

RESULT 8
US-09-905-381A-189
; Sequence 189, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-905-381A-189

Query Match 98.9%; Score 1944.4; DB 4; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
```

```
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
                |||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917


RESULT 9
US-09-906-618-189
; Sequence 189, Application US/09906618
; Patent No. 6828146
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/906,618
;  CURRENT FILING DATE:  2001-07-16
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-906-618-189

  Query Match             98.9%;  Score 1944.4;  DB 4;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
                ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259
Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319
Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379
Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439
Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499
Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559
Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619
Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679
Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739
Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799
Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859
Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919
Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979
Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039
Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099
Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159
Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219
Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279
Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339
```

```
Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399
Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459
Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519
Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579
Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639
Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699
Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759
Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819
Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879
Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

```
RESULT 10
US-09-513-999C-15660
; Sequence 15660, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Duclert, A.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
;  FILE REFERENCE: 59.US2.REG
;  CURRENT APPLICATION NUMBER: US/09/513,999C
;  CURRENT FILING DATE:  2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/122,487
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 36681
;  SOFTWARE: Patent.pm
; SEQ ID NO 15660
;   LENGTH: 199
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-513-999C-15660

  Query Match           10.0%;  Score 195.8;  DB 4;  Length 199;
  Best Local Similarity   99.0%;  Pred. No. 2.5e-52;
  Matches  197;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy       1576 TCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCGTCTGAAAAGGGATCGA 1635
Db          1 TCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCGTCTGAAAAGGGATCGA 60
```

```
Qy       1636 AGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGAAGAAACTCCAAACCAG 1695
Db         61 AGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGAAGAAACTCCAAACCAG 120

Qy       1696 CCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCTGAATGTGGTGACTGTA 1755
Db        121 CCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCTGAATGTGGTGACTGTA 180

Qy       1756 GCGACAATCACAGTGAGGC 1774
Db        181 GCGACAATCACAGTGGAGC 199
```

RESULT 11
US-08-470-350B-1
; Sequence 1, Application US/08470350B
; Patent No. 5684126
; GENERAL INFORMATION:
;   APPLICANT: Li, Xiao
;   APPLICANT: Snyder, Solomon H
;   TITLE OF INVENTION: Ebnerin: A Secreted von Ebner's Gland
;   TITLE OF INVENTION: Protein Associated with Taste Buds
;   NUMBER OF SEQUENCES: 6
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Banner & Witcoff, Ltd.
;   STREET: 1001 G Street, N.W.
;   CITY: Washington
;   STATE: D.C.
;   COUNTRY: USA
;   ZIP: 20001
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: Patent In Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/470,350B
;   FILING DATE:
;   CLASSIFICATION: 435
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Wolffe, Susan A
;   REGISTRATION NUMBER: 33,568
;   REFERENCE/DOCKET NUMBER: 01107.48790
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 202-508-9100
;   TELEFAX: 202-508-9299
; INFORMATION FOR SEQ ID NO: 1:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 4360 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: cDNA
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
;   ORIGINAL SOURCE:
;   ORGANISM: Rattus rattus
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: 94..3963
US-08-470-350B-1

```
  Query Match             8.4%;  Score 164.6;  DB 1;  Length 4360;
  Best Local Similarity   49.4%;  Pred. No. 2.3e-41;
  Matches  583;  Conservative    0;  Mismatches  569;  Indels   27;  Gaps    5;

Qy        463 TGTGGCGGTTACCTGGATACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCG 522
Db       2605 TGTGGAGGTTTCCTGACTGGACTCTCTGGGCAATTTTCTAGCCCATACTACCCTGGGAGC 2664

Qy        523 CATCCTGAGCTGGCTTATTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAA 582
Db       2665 TATCCTAATAATGCCAGATGTTTGTGGAACATTGAAGTCCCAAACAACTACCGCGTGACT 2724

Qy        583 CTAAACTTCAAAGAGATTTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCC 642
Db       2725 GTGGTCTTCAGAGATGTGCAGCTGGAAGGGGGC------TGCAACTATGACTATATAGAG 2778

Qy        643 ATCTATGATGGCCCCTCCACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACT 702
Db       2779 ATTTTGATGGCCCCCACCACAGTTCACCTCTCATTGCCCGGGTTTGTGATGGGGCCATG 2838

Qy        703 CCCACCTTCGAATCGTCATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAAT 762
Db       2839 GGCTCTTTCACTTCAACATCCAACTTCATGTCAGTTCGCTTCACCACTGATCACAGTGTT 2898

Qy        763 TCTTACCGGGGATTTTCTGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACA 822
Db       2899 ACTCGAAGAGGGTTCCGGGCTGACTACTACTCAGACTTTGACAATAATACCACCAATCTC 2958

Qy        823 TCTTTAACTTGCTCTTCTGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCT 882
Db       2959 CTTTGTCTGTCAAATCACATGAGAGCCAGTGTGAGCAGGAGCTACCTTCAGTCCATGGGC 3018

Qy        883 TTTAACTCTAATGGGAATAACTT---------GCAACTAAAAGACCCAACTTGCAGACCA 933
Db       3019 TACTCCTCCAGGGATCTTGTCATTCCTGGTTGGAACGTGAGTTACCAGTGTCAGCCTCAG 3078

Qy        934 AAATTATCAAATGTTGTGGAATTTTCTGTCCCTCTTAATGGATGTGGTACAATCAGAAAG 993
Db       3079 ATAACACAAAGGGAGGTCATATTCACAATTCCCTACACAGGCTGCGGTACTACCAAACAG 3138

Qy        994 GTAGAAGATCAGTCAATTACTTACACCAATATAATCACCTTTTCTGCATCCTCAACTTCT 1053
Db       3139 GCTGACAACGAGACCATCAACTACTCCAACTTCCTCAAAGCGGCTGTTT------CAAAT 3192

Qy       1054 GAAGTGATCACCCGTCAGAAACAACTCCAGATTATTGTGAAGTGTGAAATGGACATAAT 1113
Db       3193 GGCATCATCAAAAGGAGAAAGGATCTCCACATCCATGTCAGCTGCAAGATGCTTCAGAAC 3252

Qy       1114 TCTACAGTGGAGATAATATACATAACAGAAGATGATGTAATACAAAGTCAAAATGCACTG 1173
Db       3253 ACCTGGGTCAACACCATGTACATCACCAACAACACAGTCGAGATCCAGGAAGTCCAGTAT 3312

Qy       1174 GGCAAATATAACACCAGCATGGCTCTTTTGAATCCAATTCATTTGAAAAGACTATACTT 1233
Db       3313 GGCAATTTTGACGTGAATATTTCCTTTTATACATCCTCCTCCTTCTTGTATCCAGTGACC 3372

Qy       1234 GAATCACCATATTATGTGGATTTGAACCAAACTCTTTTGTTCAAGTTAGTCTGCACACC 1293
Db       3373 AGCAGCCCATATTATGTGGATCTGGACCAGAATTTGTACCTTCAGGCCGAAGTCCTCCAT 3432

Qy       1294 TCAGATCCAAATTTGGTGGTGTTTCTTGATACCTGTAGAGCCTCTCC---CACCTCTGAC 1350
Db       3433 TCGGATACCTCTTTGGCTCTGTTTGTGGACACCTGTGTGGCTTCGCCACATCCCAATGAC 3492

Qy       1351 TTTGCATCTCCAACCTACGACCTAATCAAGAGTGGATGTAGTCGAGATGAAACTTGTAAG 1410
Db       3493 TTCTCGTCTTTGACATATGATCTCATCAGGAGTGGATGCATACGAGATGAAACTTACCAA 3552

Qy       1411 GTGTATCCCT---TATTTGGACACTATGGGAGATTCCAGTTTAATGCCTTTAAATTCTTG 1467
Db       3553 TCTTACTCCTCGCCCTCACCACGCATCACCCGCTTTAAATTCAGTTCTTTCCACTTCCTG 3612

Qy       1468 AGAAGTATGAGCTCTGTGTATCTGCAGTGTAAAGTTTTGATATGTGATAGCAGTGACCAC 1527
Db       3613 AACCGCTTCCCCTCAGTATACCTACAGTGTAAACTGGTGGTTTGTCGAGCAAACGATGTC 3672

Qy       1528 CAGTCTCGCTGCAATCAAGGTTGTGTCTCCAGAAGCAAACGAGACATTTCTTCATATAAA 1587
Db       3673 TCCTCACGGTGCTACAGAGGATGTGTAGTAAGGTCCAAGAGGGATGTAGGCTCCTACCAA 3732

Qy       1588 TGGAAAACAGATTCCATCATAGGACCCATTCGTCTGAAA 1626
Db       3733 GAAAAGGTGGATGTTGTTCTGGGACCCATCCAGTTGCAA 3771
```

```
RESULT 12
US-08-700-575-39
; Sequence 39, Application US/08700575
; Patent No. 5817479
;  GENERAL INFORMATION:
;    APPLICANT:  Au-Young, Janice
;    APPLICANT:  Bandman, Olga
;    APPLICANT:  Hawkins, Phillip R.
;    APPLICANT:  Wilde, Craig G.
;    TITLE OF INVENTION:  NOVEL HUMAN KINASE HOMOLOGS
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  INCYTE PHARMACEUTICALS, INC.
;      STREET:  3174 PORTER DRIVE
;      CITY:  PALO ALTO
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/700,575
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BILLINGS, LUCY J
;      REGISTRATION NUMBER:  36749
;      REFERENCE/DOCKET NUMBER:  SP-100 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-845-4166
;  INFORMATION FOR SEQ ID NO:  39:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  167 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    IMMEDIATE SOURCE:
;      LIBRARY:  Pancreas
;      CLONE:  223163
US-08-700-575-39

  Query Match             7.9%;  Score 156;  DB 1;  Length 167;
  Best Local Similarity   99.4%;  Pred. No. 1.4e-39;
  Matches  167;  Conservative    0;  Mismatches    0;  Indels    1;  Gaps    1;

Qy        830 CTTGCTCTTCTGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACT 889
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CTTGCTCTTCTGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACT 60

Qy        890 CTAATGGGAATAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTG 949
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTAATGGGAATAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTG 120

Qy        950 TGGAATTTTCTGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAG 997
              ||| ||||||||||||||||||||||||||||||||||||||||||||
Db        121 TGG-ATTTTCTGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAG 167

RESULT 13
US-09-976-594-272
; Sequence 272, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
;  APPLICANT: Furness, Michael
;  APPLICANT:  Buchbinder, Jenny
;  TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
;  FILE REFERENCE: PA-0041 US
;  CURRENT APPLICATION NUMBER: US/09/976,594
;  CURRENT FILING DATE:  2001-10-12
;  PRIOR APPLICATION NUMBER: 60/240,409
;  PRIOR FILING DATE: 2000-10-12
;  NUMBER OF SEQ ID NOS: 1143
;  SOFTWARE: PERL Program
; SEQ ID NO 272
;   LENGTH: 5943
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6673549 238660.5
US-09-976-594-272

  Query Match             6.3%;  Score 124.4;  DB 4;  Length 5943;
  Best Local Similarity   48.1%;  Pred. No. 2.4e-28;
  Matches  578;  Conservative    0;  Mismatches  576;  Indels   48;  Gaps    6;

Qy        462 CTGTGGCGGTTACCTGGATACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCC 521
              ||| || || | |||            |||   |||  |||||||    || ||   |  
Db       4385 CTGCGGAGGCTTCCTATCCCAACCATCAGGGGACTTTTCCAGCCCATTCTATCCCGGGAA 4444

Qy        522 GCATCCTGAGCTGGCTTATTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAA 581
                ||||  |    ||  | ||||||||| ||||  | |||  | ||  | |||    | | 
Db       4445 CTATCCAAACAATGCCAAGTGTGTGTGGGACATTGAGGTGCAAAACAACTACCGTGTGAC 4504

Qy        582 ACTAAACTTCAAAGAGATTTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGC 641
                | | ||||| |||  |    || |||    | |      ||||| | ||||| | ||| 
Db       4505 TGTGATCTTCAGAGATGTCCAGCTTGAAGGTGGC------TGCAACTATGATTATATTGA 4558

Qy        642 CATCTATGATGGCCCCTCCACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGAC 701
                | |  |||||||||| |  ||  ||    || ||||  | ||| ||||   | |  | 
Db       4559 AGTTTTCGATGGCCCCTACCGCAGTTCCCCTCTCATTGCTCGAGTTTGTGATGGGGCCAG 4618

Qy        702 TCCCACCTTCGAATCGTCATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAA 761
                 | |||||   || || || ||||   || |  |    ||    |  ||  |   || 
Db       4619 AGGCTCCTTCACTTCTTCCTCCAACTTCATGTCCATTCGCTTCATCAGTGACCACAGCAT 4678

Qy        762 TTCTTACCGGGGATTTTCTGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTAC 821
                |     | || ||    |||   |||||| | |    |  |  ||| || ||    
Db       4679 CACAAGGAGAGGGTTCCGGGCTGAGTACTACTCCAGTCCCTCCAATGACAGCACCAACCT 4738

Qy        822 ATCTTTAACTTGCTCTTCTGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGC 881
                  |          |               || || |  |  ||| |   | |      || 
Db       4739 GCTCTGTCTGCCAAATCACATGCAAGCCAGTGTGAGCAGGAGCTATCTCCAATCCTTGGG 4798

Qy        882 TTTTAACTCTAATGGGAAT---------AACTTGCAACTAAAAGACCCAACTTGCAGACC 932
               |||    | | ||    |         | || | |   | |  ||     | |    | 
Db       4799 CTTTTCTGCCAGTGACCTTGTCATTTCCACCTGGAATGGATACTACGAGTGTCGGCCCCA 4858

Qy        933 AAAATTATCAAATGTTGTGGAATTTTCTGTCCCTCTTAATGGATGTGGTACAATCAGAAA 992
               | |    | ||  | ||| ||| |  |  | ||        || || || ||  |||   |
Db       4859 GATAACGCCGAACCTGGTGATATTCACAATTCCCTACTCAGGCTGCGGCACCTTCAAGCA 4918

Qy        993 GGTAGAAGATCAGTCAATTACTTACACCAATATAATCACCTTTTCTGCATCCTCAACTTC 1052
              || |||  || |  | ||    ||  ||||  |  ||||     |||  ||         
Db       4919 GGCAGACAATGACACCATCGACTATTCCAACTTCCTCACAGCAGCTGTCTCA------GG 4972

Qy       1053 TGAAGTGATCACCCGTCAGAAACAACTCCAGATTATTGTGAAGTGTGAAATGGGACATAA 1112
              ||   | ||||   |   || | | |||| ||||   || |  ||   ||||   || ||
Db       4973 TGGCATCATCAAGAGGAGGACAGACCTCCGTATTCACGTCAGCTGCAGAATGCTTCAGAA 5032

Qy       1113 TTCTACAGTGGAGATAATATACATAACAGAAGATGATGTAATACAAAGTCAAAATGCACT 1172
                |    || || |  || ||||||  |  | ||     |         | | ||  |  |
Db       5033 CACCTGGGTCGACACCATGTACATTGCTAATGACACCATCCACGTTGCTAATAACACCAT 5092

Qy       1173 ---------------------GGGCAAATATAACACCAGCATGGCTCTTTTTGAATCCAA 1211
                                    ||||| | | ||   | |||  |  ||| |   |||  
Db       5093 CCAGGTCGAGGAAGTCCAGTATGGCAATTTTGACGTGAACATTTCCTTTTATACTTCCTC 5152

Qy       1212 TTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAACCAAACTCTTTT 1271
               || ||     |  || |          || || || ||||||  |||||||     | | 
```

```
Db       5153 ATCTTTCTTGTATCCTGTGACCAGCCGCCCTTACTACGTGGACCTGAACCAGGACTTGTA 5212

Qy       1272 TGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCTTGATACCTGTAG 1331

Db       5213 CGTTCAGGCTGAAATCCTCCATTCTGATGCTGTACTGACCTTGTTTGTGGACACCTGCGT 5272

Qy       1332 AGCCTCTCC---CACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAAGAGTGGATG 1388

Db       5273 GGCATCACCATACTCCAATGACTTCACGTCTTTGACTTATGATCTAATCCGGAGTGGATG 5332

Qy       1389 TAGTCGAGATGAAACTTGTAAGGTGTATCCCTT---ATTTGGACACTATGGGAGATTCCA 1445

Db       5333 CGTGAGGGATGACACCTACGGACCCTACTCCTCGCCATCTCTTCGCATTGCCCGCTTCCG 5392

Qy       1446 GTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAAAGTTTT 1505

Db       5393 GTTCAGGGCCTTCCACTTCCTGAACCGCTTCCCCTCCGTGTACCTGCGTTGTAAAATGGT 5452

Qy       1506 GATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAGAAGCAA 1565

Db       5453 GGTGTGCAGAGCGTATGACCCCTCTTCCCGCTGCTACCGAGGCTGTGTGTTGAGGTCGAA 5512

Qy       1566 ACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCGTCTGAA 1625

Db       5513 GAGGGATGTGGGCTCCTACCAGGAAAAGGTGGACGTCGTCCTGGGTCCCATCCAGCTGCA 5572

Qy       1626 AA 1627

Db       5573 GA 5574


RESULT 14
US-09-341-587-4
; Sequence 4, Application US/09341587
; Patent No. 6346606
; GENERAL INFORMATION:
;  APPLICANT: Mollenhauer, Jan
;  TITLE OF INVENTION: Protein Containing an SRCR Domain
;  FILE REFERENCE: 4121-108
;  CURRENT APPLICATION NUMBER: US/09/341,587
;  CURRENT FILING DATE: 1999-08-31
;  EARLIER APPLICATION NUMBER: PCT/DE98/00096
;  EARLIER FILING DATE: 1998-01-09
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
;   LENGTH: 5802
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-341-587-4

  Query Match             6.2%;  Score 122.8;  DB 3;  Length 5802;
  Best Local Similarity   48.0%;  Pred. No. 7.6e-28;
  Matches  577;  Conservative    0;  Mismatches  577;  Indels   48;  Gaps    6;

Qy        462 CTGTGGCGGTTACCTGGATACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCC 521

Db       4243 CTGCGGAGGCTTCCTATCCCAACCATCAGGGGACTTTTCCAGCCCATTCTATCCCGGGAA 4302

Qy        522 GCATCCTGAGCTGGCTTATTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAA 581

Db       4303 CTATCCAAACAATGCCAAGTGTGTGTGGGACATTGAGGTGCAAAACAACTACCGTGTGAC 4362

Qy        582 ACTAAACTTCAAAGAGATTTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGC 641

Db       4363 TGTGATCTTCAGAGATGTCCAGCTTGAAGGTGGC------TGCAACTATGATTATATTGA 4416

Qy        642 CATCTATGATGGCCCCTCCACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGAC 701

Db       4417 AGTTTTCGATGGCCCCTACCGCAGTTCCCCTCTCATTGCTCGAGTTTGTGATGGGGCCAG 4476

Qy        702 TCCCACCTTCGAATCGTCATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAA 761

Db       4477 AGGCTCCTTCACTTCTTCCTCCAACTTCATGTCCATTCGCTTCATCAGTGACCACAGCAT 4536

Qy        762 TTCTTACCGGGGATTTTCTGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTAC 821

Db       4537 CACAAGGAGAGGGTTCCGGGCTGAGTACTACTCCAGTCCCTCCAATGACAGCACCAACCT 4596

Qy        822 ATCTTTAACTTGCTCTTCTGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGC 881

Db       4597 GCTCTGTCTGCCAAATCACATGCAAGCCAGTGTGAGCAGGAGCTATCTCCAATCCTTGGG 4656

Qy        882 TTTTAACTCTAATGGGAAT---------AACTTGCAACTAAAAGACCCAACTTGCAGACC 932

Db       4657 CTTTTCTGCCAGTGACCTTGTCATTTCCACCTGGAATGGATACTACGAGTGTCGGCCCCA 4716

Qy        933 AAAATTATCAAATGTTGTGGAATTTTCTGTCCCTCTTAATGGATGTGGTACAATCAGAAA 992

Db       4717 GATAACGCCGAACCTGGTGATATTCACAATTCCCTACTCAGGCTGCGGCACCTTCAAGCA 4776

Qy        993 GGTAGAAGATCAGTCAATTACTTACACCAATATAATCACCTTTTCTGCATCCTCAACTTC 1052

Db       4777 GGCAGACAATGACACCATCGACTATTCCAACTTCCTCACAGCAGCTGTCTCA------GG 4830

Qy       1053 TGAAGTGATCACCCGTCAGAAACAACTCCAGATTATTGTGAAGTGTGAAATGGGACATAA 1112

Db       4831 TGGCATCATCAAGAGGAGGACAGACCTCCGTATTCACGTCAGCTGCAGAATGCTTCAGAA 4890

Qy       1113 TTCTACAGTGGAGATAATATACATAACAGAAGATGATGTAATACAAAGTCAAAATGCACT 1172

Db       4891 CACCTGGGTCGACACCATGTACATTGCTAATGACACCATCCACGTTGCTAATAACACCAT 4950

Qy       1173 ----------------------GGGCAAATATAACACCAGCATGGCTCTTTTTGAATCCAA 1211

Db       4951 CCAGGTCGAGGAAGTCCAGTATGGCAATTTTGACGTGAACATTTCCTTTTATACTTCCTC 5010

Qy       1212 TTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAACCAAACTCTTTT 1271

Db       5011 ATCTTTCTTGTATCCTGTGACCAGCCGCCCTTACTACGTGGACCTGAACCAGGACTTGTA 5070

Qy       1272 TGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCTTGATACCTGTAG 1331

Db       5071 CGTTCAGGCTGAAATCCTCCATTCTGATGCTGTACTGACCTTGTTTGTGGACACCTGCGT 5130

Qy       1332 AGCCTCTCC---CACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAAGAGTGGATG 1388

Db       5131 GGCATCACCATACTCCAATGACTTCACGTCTTTGACTTATGATCTAATCCGGAGTGGATG 5190

Qy       1389 TAGTCGAGATGAAACTTGTAAGGTGTATCCCTTA---TTTGGACACTATGGGAGATTCCA 1445

Db       5191 CGTGAGGGATGACACCTACGGACCCTACTCCTCGCCGTCTCTTCGCATTGCCCGCTTCCG 5250

Qy       1446 GTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAAAGTTTT 1505

Db       5251 GTTCAGGGCCTTCCACTTCCTGAACCGCTTCCCCTCCGTGTACCTGCGTTGTAAAATGGT 5310

Qy       1506 GATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAGAAGCAA 1565

Db       5311 GGTGTGCAGAGCGTATGACCCCTCTTCCCGCTGCTACCGAGGCTGTGTGTTGAGGTCGAA 5370

Qy       1566 ACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCGTCTGAA 1625

Db       5371 GAGGGATGTGGGCTCCTACCAGGAAAAGGTGGACGTCGTCCTGGGTCCCATCCAGCTGCA 5430

Qy       1626 AA 1627

Db       5431 GA 5432


RESULT 15
US-09-341-587-2
; Sequence 2, Application US/09341587
; Patent No. 6346606
; GENERAL INFORMATION:
;  APPLICANT: Mollenhauer, Jan
```

```
;  TITLE OF INVENTION: Protein Containing an SRCR Domain
;  FILE REFERENCE: 4121-108
;  CURRENT APPLICATION NUMBER: US/09/341,587
;  CURRENT FILING DATE: 1999-08-31
;  EARLIER APPLICATION NUMBER: PCT/DE98/00096
;  EARLIER FILING DATE: 1998-01-09
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 2001
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-341-587-2

  Query Match             3.7%;  Score 73.4;  DB 3;  Length 2001;
  Best Local Similarity   51.0%;  Pred. No. 2.7e-12;
  Matches  173;  Conservative    0;  Mismatches  166;  Indels    0;  Gaps    0;

Qy        456 TCCAAACTGTGGCGGTTACCTGGATACCTTGGAAGGATCCTTCACCAGCCCCAATTACCC 515
              | |||| ||||| || | | |              ||  | ||| |||||||    |||||
Db        555 TTCAAATTGTGGTGGCTTCTTATTCTATGCCAGTGGGACATTCTCCAGCCCATCCTACCC 614

Qy        516 AAAGCCGCATCCTGAGCTGGCTTATTGTGTGTGGCACATACAAGTGGAGAAAGATTACAA 575
                  | ||  |    ||| | ||||| ||| | ||| ||||| |    | |||
Db        615 TGCATACTACCCCAACAATGCTAAGTGTGTTTGGGAAATAGAAGTGAATTCTGGTTATCG 674

Qy        576 GATAAAACTAAACTTCAAAGAGATTTTCCTAGAAATAGACAAACAGTGCAAATTTGATTT 635
               ||||| ||   |||||  |  |     | ||   | || |  | ||||  |||||||
Db        675 CATAAACCTGGGCTTCAGTAATCTGAAATTGGAGGCACACCATAACTGCAGTTTTGATTA 734

Qy        636 TCTTGCCATCTATGATGGCCCCTCCACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCG 695
              | |||  |||| ||||||  | |  |  | |  |  |||| | ||  || |||||
Db        735 TGTTGAAATCTTTGATGGATCATTGAATAGCAGTCTCCTGCTGGGGAAAATCTGTAATGA 794

Qy        696 TGTGACTCCCACCTTCGAATCGTCATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTA 755
              |   | | |  ||   ||| || |  |||    ||||  |    ||    |  ||
Db        795 TACCAGGCAAATATTTACATCTTCTTACAACCGAATGACCATTCACTTTCGAAGTGACAT 854

Qy        756 TGCCAATTCTTACCGGGGATTTTCTGCTTCCTACACCTC 794
                    ||   || ||||  ||||  || | |||
Db        855 CAGTTTCCAAAACACTGGCTTTTTGGCTTGGTATAACTC 893


Search completed: February  6, 2005, 20:59:00
Job time : 338.654 secs
```

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: February 6, 2005, 20:39:38 ; Search time 1086.57 Seconds
(without alignments)
10414.270 Million cell updates/sec

Title: US-09-864-711-1
Perfect score: 1966
Sequence: 1 caaaatggagcttgtaagaa.....atgtcaaaaaaaaaaaaaa 1966

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4313806 seqs, 2877871033 residues

Total number of hits satisfying chosen parameters: 8627612

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
19: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
20: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
21: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

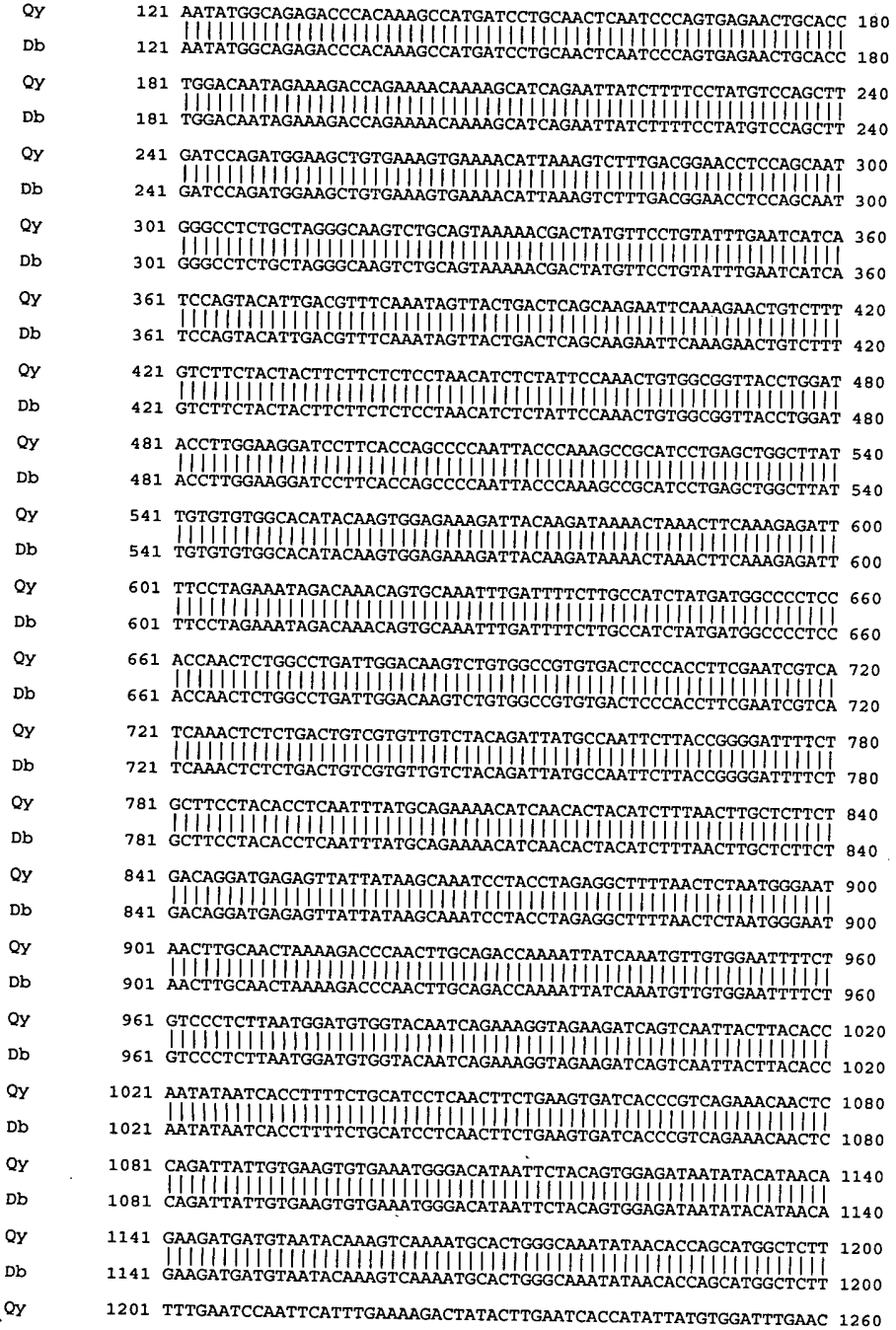
Result No.	Score	% Query Match	Length	DB	ID	Description
1	1966	100.0	1966	9	US-09-864-711-1	Sequence 1, Appli
2	1944.4	98.9	2917	9	US-09-909-320-189	Sequence 189, App
3	1944.4	98.9	2917	9	US-09-909-088B-189	Sequence 189, App
4	1944.4	98.9	2917	9	US-09-905-291A-189	Sequence 189, App
5	1944.4	98.9	2917	9	US-09-902-853-189	Sequence 189, App
6	1944.4	98.9	2917	9	US-09-907-824-189	Sequence 189, App
7	1944.4	98.9	2917	9	US-09-907-841-189	Sequence 189, App
8	1944.4	98.9	2917	10	US-09-904-011-189	Sequence 189, App
9	1944.4	98.9	2917	10	US-09-903-640-189	Sequence 189, App
10	1944.4	98.9	2917	10	US-09-908-093-189	Sequence 189, App
11	1944.4	98.9	2917	10	US-09-906-742-189	Sequence 189, App
12	1944.4	98.9	2917	10	US-09-906-838-189	Sequence 189, App
13	1944.4	98.9	2917	10	US-09-907-613-189	Sequence 189, App
14	1944.4	98.9	2917	10	US-09-907-942-189	Sequence 189, App
15	1944.4	98.9	2917	10	US-09-904-859-189	Sequence 189, App
16	1944.4	98.9	2917	10	US-09-909-204-189	Sequence 189, App
17	1944.4	98.9	2917	10	US-09-904-820-189	Sequence 189, App
18	1944.4	98.9	2917	10	US-09-904-786-189	Sequence 189, App
19	1944.4	98.9	2917	10	US-09-906-646-189	Sequence 189, App
20	1944.4	98.9	2917	10	US-09-906-700-189	Sequence 189, App
21	1944.4	98.9	2917	10	US-09-903-786-189	Sequence 189, App
22	1944.4	98.9	2917	10	US-09-902-903-189	Sequence 189, App
23	1944.4	98.9	2917	10	US-09-903-749A-189	Sequence 189, App
24	1944.4	98.9	2917	10	US-09-904-119-189	Sequence 189, App
25	1944.4	98.9	2917	10	US-09-904-956-189	Sequence 189, App
26	1944.4	98.9	2917	10	US-09-902-736-189	Sequence 189, App
27	1944.4	98.9	2917	10	US-09-907-794-189	Sequence 189, App
28	1944.4	98.9	2917	10	US-09-903-943-189	Sequence 189, App
29	1944.4	98.9	2917	10	US-09-904-462-189	Sequence 189, App
30	1944.4	98.9	2917	10	US-09-907-925-189	Sequence 189, App
31	1944.4	98.9	2917	10	US-09-902-692-189	Sequence 189, App
32	1944.4	98.9	2917	10	US-09-903-520-189	Sequence 189, App
33	1944.4	98.9	2917	10	US-09-905-056-189	Sequence 189, App
34	1944.4	98.9	2917	10	US-09-909-064-189	Sequence 189, App
35	1944.4	98.9	2917	10	US-09-904-553-189	Sequence 189, App
36	1944.4	98.9	2917	10	US-09-905-381-189	Sequence 189, App
37	1944.4	98.9	2917	10	US-09-904-485-189	Sequence 189, App
38	1944.4	98.9	2917	10	US-09-905-348-189	Sequence 189, App
39	1944.4	98.9	2917	10	US-09-905-088-189	Sequence 189, App
40	1944.4	98.9	2917	10	US-09-907-575-189	Sequence 189, App
41	1944.4	98.9	2917	10	US-09-905-075-189	Sequence 189, App
42	1944.4	98.9	2917	10	US-09-902-759-189	Sequence 189, App
43	1944.4	98.9	2917	10	US-09-902-634-189	Sequence 189, App
44	1944.4	98.9	2917	10	US-09-902-713-189	Sequence 189, App
45	1944.4	98.9	2917	10	US-09-907-979-189	Sequence 189, App

ALIGNMENTS

RESULT 1
US-09-864-711-1
; Sequence 1, Application US/09864711
; Patent No. US20020077309A1
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Klingler, Tod M.
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS
; FILE REFERENCE: PB-0008-1 CIP
; CURRENT APPLICATION NUMBER: US/09/864,711
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PERL Program
; SEQ ID NO 1
; LENGTH: 1966
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: 223163CT1
US-09-864-711-1

Query Match 100.0%; Score 1966; DB 9; Length 1966;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1966; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60

Qy         61 GGACTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGCC 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GGACTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGCC 120
```



RESULT 2
US-09-909-320-189
; Sequence 189, Application US/09909320
; Patent No. US20020132240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.

```
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/909,320
;  CURRENT FILING DATE:  2002-01-04
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-909-320-189

  Query Match             98.9%;  Score 1944.4;  DB 9;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279
```

```
Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
             |||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

RESULT 3
US-09-909-088B-189
; Sequence 189, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-088B-189

Query Match 98.9%; Score 1944.4; DB 9; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259
```

```
Qy       300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy       360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy       420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy       480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy       540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy       600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy       660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy       720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy       780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy       840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy       900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy       960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy      1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy      1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy      1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy      1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy      1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy      1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy      1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy      1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy      1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy      1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy      1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy      1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy      1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy      1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy      1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy      1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
            ||||||||||||||||||||||||||||||| ||||||
Db      2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

```
RESULT 4
US-09-905-291A-189
; Sequence 189, Application US/09905291A
; Patent No. US20020160374A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
```

; CURRENT APPLICATION NUMBER: US/09/905,291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-905-291A-189

Query Match 98.9%; Score 1944.4; DB 9; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459
```

```
Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
             |||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

RESULT 5
US-09-902-853-189
; Sequence 189, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-902-853-189

Query Match 98.9%; Score 1944.4; DB 9; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439
```

```
Qy       480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
Db      1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy       540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
Db      1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy       600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
Db      1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy       660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
Db      1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy       720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
Db      1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy       780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
Db      1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy       840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
Db      1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy       900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
Db      1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy       960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
Db      1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy      1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
Db      1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy      1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
Db      2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy      1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
Db      2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy      1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
Db      2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy      1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
Db      2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy      1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
Db      2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy      1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
Db      2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy      1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
Db      2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy      1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
Db      2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy      1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
Db      2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy      1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
Db      2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy      1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
Db      2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy      1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
Db      2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy      1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
Db      2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy      1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
Db      2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy      1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
Db      2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

```
RESULT 6
US-09-907-824-189
; Sequence 189, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/907,824
;  CURRENT FILING DATE:  2001-07-17
;  PRIOR APPLICATION NUMBER: 09/665,350
;  PRIOR FILING DATE: 2000-09-18
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
```

```
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-907-824-189

  Query Match             98.9%;  Score 1944.4;  DB 9;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
```

```
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
                |||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

```
RESULT 7
US-09-907-841-189
; Sequence 189, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/907,841
;  CURRENT FILING DATE:  2001-11-20
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-907-841-189

  Query Match             98.9%;  Score 1944.4;  DB 9;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
               ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799
```

```
Qy       840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
Db      1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy       900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
Db      1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy       960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
Db      1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy      1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
Db      1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy      1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
Db      2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy      1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
Db      2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy      1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
Db      2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy      1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
Db      2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy      1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
Db      2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy      1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
Db      2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy      1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
Db      2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy      1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
Db      2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy      1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
Db      2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy      1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
Db      2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy      1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
Db      2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy      1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
Db      2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy      1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
Db      2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy      1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
Db      2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy      1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
Db      2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

RESULT 8
US-09-904-011-189
; Sequence 189, Application US/09904011
; Publication No. US20030003530A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-904-011-189

Query Match 98.9%; Score 1944.4; DB 10; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy        1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
Db      960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy       61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
Db     1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy      120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
Db     1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy      180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
Db     1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy      240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
Db     1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy      300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
Db     1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy      360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
Db     1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy      420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
Db     1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy      480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
Db     1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy      540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
Db     1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy      600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
Db     1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy      660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
Db     1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy      720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
Db     1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy      780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
Db     1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy      840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
Db     1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy      900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
Db     1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy      960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
Db     1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy     1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
Db     1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy     1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
Db     2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy     1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
Db     2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy     1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
Db     2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy     1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
Db     2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy     1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
Db     2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy     1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
Db     2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy     1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
Db     2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy     1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
Db     2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy     1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
Db     2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy     1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
Db     2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy     1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
Db     2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy     1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
Db     2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy     1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
Db     2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy     1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
Db     2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy     1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
Db     2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

```
RESULT 9
US-09-903-640-189
; Sequence 189, Application US/09903640
; Publication No. US20030017463A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/903,640
;  CURRENT FILING DATE:  2001-07-11
;  PRIOR APPLICATION NUMBER: 09/665,350
;  PRIOR FILING DATE: 2000-09-18
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-903-640-189

  Query Match             98.9%;  Score 1944.4;  DB 10;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
```

```
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy         1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy         1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy         1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy         1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy         1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy         1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy         1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy         1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
                ||||||||||||||||||||||||||||||| ||||||
Db         2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

RESULT 10
US-09-908-093-189
; Sequence 189, Application US/09908093
; Publication No. US20030017498A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/908,093
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-908-093-189

```
  Query Match             98.9%;  Score 1944.4;  DB 10;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy            1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy           61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
                ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy          120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy          180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy          240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy          300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy          360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379
```

```
Qy       420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
Db      1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy       480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
Db      1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy       540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
Db      1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy       600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
Db      1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy       660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
Db      1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy       720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
Db      1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy       780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
Db      1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy       840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
Db      1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy       900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
Db      1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy       960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
Db      1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy      1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
Db      1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy      1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
Db      2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy      1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
Db      2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy      1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
Db      2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy      1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
Db      2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy      1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
Db      2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy      1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
Db      2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy      1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
Db      2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy      1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
Db      2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy      1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
Db      2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy      1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
Db      2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy      1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
Db      2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy      1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
Db      2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy      1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
Db      2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy      1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
Db      2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy      1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
Db      2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

RESULT 11
US-09-906-742-189
; Sequence 189, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,742
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-906-742-189

Query Match 98.9%; Score 1944.4; DB 10; Length 2917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1956; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy        1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
Db      960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy       61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
Db     1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy      120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
Db     1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy      180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
Db     1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy      240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
Db     1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy      300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
Db     1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy      360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
Db     1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy      420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
Db     1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy      480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
Db     1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy      540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
Db     1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy      600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
Db     1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy      660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
Db     1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy      720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
Db     1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy      780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
Db     1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy      840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
Db     1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy      900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
Db     1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy      960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
Db     1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy     1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
Db     1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy     1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
Db     2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy     1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
Db     2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy     1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
Db     2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy     1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
Db     2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy     1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
Db     2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy     1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
Db     2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy     1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
Db     2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy     1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
Db     2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy     1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
```

```
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
                |||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917


RESULT 12
US-09-906-838-189
; Sequence 189, Application US/09906838
; Publication No. US20030027143A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/906,838
;  CURRENT FILING DATE:  2001-07-16
;  PRIOR APPLICATION NUMBER: 09/665,350
;  PRIOR FILING DATE: 2000-09-18
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-906-838-189

  Query Match             98.9%;  Score 1944.4;  DB 10;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
                ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499
```

```
Qy       540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
Db      1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy       600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
Db      1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy       660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
Db      1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy       720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
Db      1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy       780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
Db      1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy       840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
Db      1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy       900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
Db      1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy       960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
Db      1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy      1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
Db      1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy      1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
Db      2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy      1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
Db      2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy      1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
Db      2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy      1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
Db      2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy      1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
Db      2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy      1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
Db      2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy      1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
Db      2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy      1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
Db      2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy      1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
Db      2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy      1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
Db      2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy      1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
Db      2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy      1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
Db      2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy      1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
Db      2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy      1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
Db      2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy      1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
Db      2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

RESULT 13
US-09-907-613-189
; Sequence 189, Application US/09907613
; Publication No. US20030027145A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,613
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15

```
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-907-613-189

  Query Match             98.9%;  Score 1944.4;  DB 10;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699
```

```
Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
             |||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

```
RESULT 14
US-09-907-942-189
; Sequence 189, Application US/09907942
; Publication No. US20030027146A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Ashkenazi, Avi
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, A.
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth, J.
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Mather, Jennie P.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William, I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: 10466-14
;  CURRENT APPLICATION NUMBER: US/09/907,942
;  CURRENT FILING DATE:  2002-01-22
;  PRIOR APPLICATION NUMBER: PCT/US00/04414
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 60/143,048
;  PRIOR FILING DATE: 1999-07-07
;  PRIOR APPLICATION NUMBER: US 60/145,698
;  PRIOR FILING DATE: 1999-07-26
;  PRIOR APPLICATION NUMBER: US 60/146,222
;  PRIOR FILING DATE: 1999-07-28
;  PRIOR APPLICATION NUMBER: PCT/US99/20594
;  PRIOR FILING DATE: 1999-09-08
;  PRIOR APPLICATION NUMBER: PCT/US99/20944
;  PRIOR FILING DATE: 1999-09-13
;  PRIOR APPLICATION NUMBER: PCT/US99/21090
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/21547
;  PRIOR FILING DATE: 1999-09-15
;  PRIOR APPLICATION NUMBER: PCT/US99/23089
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: PCT/US99/28214
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: PCT/US99/28313
;  PRIOR FILING DATE: 1999-11-30
;  PRIOR APPLICATION NUMBER: PCT/US99/28564
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-907-942-189

  Query Match             98.9%;  Score 1944.4;  DB 10;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679
```

```
Qy       720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy       780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy       840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy       900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy       960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy      1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy      1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy      1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy      1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy      1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy      1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy      1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy      1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy      1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy      1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy      1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy      1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy      1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy      1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy      1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy      1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
            ||||||||||||||||||||||||||||||| ||||||
Db      2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917
```

RESULT 15
US-09-904-859-189
; Sequence 189, Application US/09904859
; Publication No. US20030036060A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,859
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02

```
;  PRIOR APPLICATION NUMBER: PCT/US99/28565
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30095
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: PCT/US99/30911
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US99/30999
;  PRIOR FILING DATE: 1999-12-20
;  PRIOR APPLICATION NUMBER: PCT/US00/00219
;  PRIOR FILING DATE: 2000-01-05
;  NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 189
;   LENGTH: 2917
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-09-904-859-189

  Query Match             98.9%;  Score 1944.4;  DB 10;  Length 2917;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1956;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 CAAAATGGAGCTTGTAAGAAGGCTCATGCCATTGACCCTCTTAATTCTCTCCTGTTTGGC 1019

Qy         61 GGA-CTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 119
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 GGAGCTGACAATGGCGGAGGCTGAAGGCAATGCAAGCTGCACAGTCAGTCTAGGGGGTGC 1079

Qy        120 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 CAATATGGCAGAGACCCACAAAGCCATGATCCTGCAACTCAATCCCAGTGAGAACTGCAC 1139

Qy        180 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CTGGACAATAGAAAGACCAGAAAACAAAAGCATCAGAATTATCTTTTCCTATGTCCAGCT 1199

Qy        240 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1200 TGATCCAGATGGAAGCTGTGAAAGTGAAAACATTAAAGTCTTTGACGGAACCTCCAGCAA 1259

Qy        300 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1260 TGGGCCTCTGCTAGGGCAAGTCTGCAGTAAAAACGACTATGTTCCTGTATTTGAATCATC 1319

Qy        360 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1320 ATCCAGTACATTGACGTTTCAAATAGTTACTGACTCAGCAAGAATTCAAAGAACTGTCTT 1379

Qy        420 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1380 TGTCTTCTACTACTTCTTCTCTCCTAACATCTCTATTCCAAACTGTGGCGGTTACCTGGA 1439

Qy        480 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1440 TACCTTGGAAGGATCCTTCACCAGCCCCAATTACCCAAAGCCGCATCCTGAGCTGGCTTA 1499

Qy        540 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1500 TTGTGTGTGGCACATACAAGTGGAGAAAGATTACAAGATAAAACTAAACTTCAAAGAGAT 1559

Qy        600 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1560 TTTCCTAGAAATAGACAAACAGTGCAAATTTGATTTTCTTGCCATCTATGATGGCCCCTC 1619

Qy        660 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1620 CACCAACTCTGGCCTGATTGGACAAGTCTGTGGCCGTGTGACTCCCACCTTCGAATCGTC 1679

Qy        720 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1680 ATCAAACTCTCTGACTGTCGTGTTGTCTACAGATTATGCCAATTCTTACCGGGGATTTTC 1739

Qy        780 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1740 TGCTTCCTACACCTCAATTTATGCAGAAAACATCAACACTACATCTTTAACTTGCTCTTC 1799

Qy        840 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1800 TGACAGGATGAGAGTTATTATAAGCAAATCCTACCTAGAGGCTTTTAACTCTAATGGGAA 1859

Qy        900 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 959
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1860 TAACTTGCAACTAAAAGACCCAACTTGCAGACCAAAATTATCAAATGTTGTGGAATTTTC 1919

Qy        960 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1920 TGTCCCTCTTAATGGATGTGGTACAATCAGAAAGGTAGAAGATCAGTCAATTACTTACAC 1979

Qy       1020 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1980 CAATATAATCACCTTTTCTGCATCCTCAACTTCTGAAGTGATCACCCGTCAGAAACAACT 2039

Qy       1080 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2040 CCAGATTATTGTGAAGTGTGAAATGGGACATAATTCTACAGTGGAGATAATATACATAAC 2099

Qy       1140 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2100 AGAAGATGATGTAATACAAAGTCAAAATGCACTGGGCAAATATAACACCAGCATGGCTCT 2159

Qy       1200 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2160 TTTTGAATCCAATTCATTTGAAAAGACTATACTTGAATCACCATATTATGTGGATTTGAA 2219

Qy       1260 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 1319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2220 CCAAACTCTTTTTGTTCAAGTTAGTCTGCACACCTCAGATCCAAATTTGGTGGTGTTTCT 2279

Qy       1320 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 1379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2280 TGATACCTGTAGAGCCTCTCCCACCTCTGACTTTGCATCTCCAACCTACGACCTAATCAA 2339

Qy       1380 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 1439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2340 GAGTGGATGTAGTCGAGATGAAACTTGTAAGGTGTATCCCTTATTTGGACACTATGGGAG 2399

Qy       1440 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 1499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2400 ATTCCAGTTTAATGCCTTTAAATTCTTGAGAAGTATGAGCTCTGTGTATCTGCAGTGTAA 2459

Qy       1500 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 1559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2460 AGTTTTGATATGTGATAGCAGTGACCACCAGTCTCGCTGCAATCAAGGTTGTGTCTCCAG 2519

Qy       1560 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 1619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2520 AAGCAAACGAGACATTTCTTCATATAAATGGAAAACAGATTCCATCATAGGACCCATTCG 2579

Qy       1620 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 1679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2580 TCTGAAAAGGGATCGAAGTGCAAGTGGCAATTCAGGATTTCAGCATGAAACACATGCGGA 2639

Qy       1680 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 1739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2640 AGAAACTCCAAACCAGCCTTTCAACAGTGTGCATCTGTTTTCCTTCATGGTTCTAGCTCT 2699

Qy       1740 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 1799
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2700 GAATGTGGTGACTGTAGCGACAATCACAGTGAGGCATTTTGTAAATCAACGGGCAGACTA 2759

Qy       1800 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 1859
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2760 CAAATACCAGAAGCTGCAGAACTATTAACTAACAGGTCCAACCCTAAGTGAGACATGTTT 2819

Qy       1860 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 1919
```

```
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2820 CTCCAGGATGCCAAAGGAAATGCTACCTCGTGGCTACACATATTATGAATAAATGAGGAA 2879

Qy       1920 GGGCCTGAAAGTGACACACAGGCCTGCATGTCAAAAAA 1957
                ||||||||||||||||||||||||||||||||||| ||||||
Db       2880 GGGCCTGAAAGTGACACACAGGCCTGCATGTAAAAAAA 2917


Search completed: February 7, 2005, 03:35:17
Job time : 1093.57 secs
```

THIS PAGE LEFT BLANK

THIS PAGE LEFT BLANK

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: February 6, 2005, 18:40:00 ; Search time 294.245 Seconds
(without alignments)
9670.472 Million cell updates/sec

Title: US-09-864-711-4
Perfect score: 1739
Sequence: 1 cccacgcgtccgggggcatg.....tgaaaaaaaaaaaaaaaaaa 1739

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	1698.6	97.7	19181	4	US-09-949-016-14405	Sequence 14405, A
	2	1698.6	97.7	19181	4	US-09-949-016-14406	Sequence 14406, A
	3	1698.6	97.7	20713	4	US-09-949-016-11956	Sequence 11956, A
	4	1698.6	97.7	20727	4	US-09-949-016-14403	Sequence 14403, A
	5	1698.6	97.7	20727	4	US-09-949-016-14404	Sequence 14404, A
	6	1698.6	97.7	20728	4	US-09-949-016-15291	Sequence 15291, A
	7	1698.6	97.7	20728	4	US-09-949-016-15292	Sequence 15292, A
	8	1245.4	71.6	1249	4	US-09-495-050A-187	Sequence 187, App
c	9	600.6	34.5	601	4	US-09-949-016-22336	Sequence 22336, A
c	10	600.6	34.5	601	4	US-09-949-016-92741	Sequence 92741, A
c	11	600.6	34.5	601	4	US-09-949-016-92755	Sequence 92755, A
c	12	600.6	34.5	601	4	US-09-949-016-92769	Sequence 92769, A
c	13	600.6	34.5	601	4	US-09-949-016-92783	Sequence 92783, A
c	14	592	34.0	601	4	US-09-949-016-22337	Sequence 22337, A
c	15	592	34.0	601	4	US-09-949-016-92740	Sequence 92740, A
c	16	592	34.0	601	4	US-09-949-016-92754	Sequence 92754, A
c	17	592	34.0	601	4	US-09-949-016-92768	Sequence 92768, A
c	18	592	34.0	601	4	US-09-949-016-92782	Sequence 92782, A
c	19	424	24.4	601	4	US-09-949-016-22335	Sequence 22335, A
c	20	424	24.4	601	4	US-09-949-016-92742	Sequence 92742, A
c	21	424	24.4	601	4	US-09-949-016-92756	Sequence 92756, A
c	22	424	24.4	601	4	US-09-949-016-92770	Sequence 92770, A
c	23	424	24.4	601	4	US-09-949-016-92784	Sequence 92784, A
	24	190	10.9	30847	4	US-09-949-016-16657	Sequence 16657, A
	25	189.6	10.9	601	4	US-09-949-016-173601	Sequence 173601,
	26	189	10.9	68702	4	US-09-949-016-16328	Sequence 16328, A
c	27	188.8	10.9	60489	4	US-09-949-016-16287	Sequence 16287, A
	28	188.4	10.8	601	4	US-09-949-016-162342	Sequence 162342,
c	29	188.2	10.8	33272	4	US-09-949-016-16949	Sequence 16949, A
	30	187.2	10.8	601	4	US-09-949-016-45206	Sequence 45206, A
	31	186	10.7	601	4	US-09-949-016-45204	Sequence 45204, A
c	32	186	10.7	90900	4	US-09-949-016-13034	Sequence 13034, A
	33	185.6	10.7	601	4	US-09-949-016-45205	Sequence 45205, A
c	34	185.6	10.7	38961	4	US-09-949-016-12143	Sequence 12143, A
c	35	185.6	10.7	38961	4	US-09-949-016-14474	Sequence 14474, A
c	36	185.4	10.7	187136	4	US-09-949-016-17231	Sequence 17231, A
	37	185.2	10.6	601	4	US-09-949-016-173602	Sequence 173602,
c	38	185.2	10.6	23105	4	US-09-949-016-13659	Sequence 13659, A
c	39	185.2	10.6	23108	4	US-09-949-016-12582	Sequence 12582, A
c	40	185.2	10.6	72928	3	US-09-009-913-1	Sequence 1, Appli
c	41	184.6	10.6	218940	4	US-09-949-016-17539	Sequence 17539, A
	42	184.4	10.6	35609	4	US-09-949-016-17370	Sequence 17370, A
c	43	184.4	10.6	90541	4	US-09-759-359A-3	Sequence 3, Appli
c	44	184.4	10.6	90541	4	US-10-207-973-3	Sequence 3, Appli
c	45	184.4	10.6	156651	4	US-09-949-016-17349	Sequence 17349, A

ALIGNMENTS

RESULT 1
US-09-949-016-14405
; Sequence 14405, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14405
; LENGTH: 19181
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(19181)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14405

Query Match 97.7%; Score 1698.6; DB 4; Length 19181;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1710; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

```
Qy         11 CGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 70
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       5637 CAGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 5696

Qy         71 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 130
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       5697 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 5756

Qy        131 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 190
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       5757 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 5816

Qy        191 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 250
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       5817 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 5876

Qy        251 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATATCCTCA 310
```

```
Db       5877 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATGTCCTCA 5936
Qy        311 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 370
Db       5937 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 5996
Qy        371 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 430
Db       5997 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 6056
Qy        431 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 490
Db       6057 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 6116
Qy        491 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 550
Db       6117 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 6176
Qy        551 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 610
Db       6177 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 6236
Qy        611 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 670
Db       6237 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 6296
Qy        671 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 730
Db       6297 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 6356
Qy        731 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 790
Db       6357 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 6416
Qy        791 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 850
Db       6417 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 6476
Qy        851 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 910
Db       6477 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 6536
Qy        911 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 970
Db       6537 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 6596
Qy        971 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 1030
Db       6597 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 6656
Qy       1031 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 1090
Db       6657 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 6716
Qy       1091 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 1150
Db       6717 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 6776
Qy       1151 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 1210
Db       6777 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 6836
Qy       1211 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 1270
Db       6837 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 6896
Qy       1271 CCTGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 1330
Db       6897 CCTCCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 6956
Qy       1331 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 1390
Db       6957 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 7016
Qy       1391 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 1450
Db       7017 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 7076
Qy       1451 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 1510
Db       7077 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 7136
Qy       1511 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 1570
Db       7137 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 7196
Qy       1571 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 1630
Db       7197 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 7256
Qy       1631 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 1690
Db       7257 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 7316
Qy       1691 TGGGCAACACTGAGCAAAACTGCCTGTCGTGAAAAAAAAAAAAAAAAAAA 1739
Db       7317 TGGGCAACACAGCAAAACTCTGTCTAAAAAAAAAAAAAAAAAAAGAGAGA 7365
```

RESULT 2
US-09-949-016-14406
; Sequence 14406, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14406
; LENGTH: 19181
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(19181)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14406

Query Match 97.7%; Score 1698.6; DB 4; Length 19181;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1710; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

```
Qy          11 CGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 70
Db        5637 CAGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 5696
Qy          71 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 130
Db        5697 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 5756
Qy         131 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 190
Db        5757 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 5816
Qy         191 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 250
```

```
Db       5817 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 5876

Qy        251 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATATCCTCA 310

Db       5877 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATGTCCTCA 5936

Qy        311 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 370

Db       5937 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 5996

Qy        371 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 430

Db       5997 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 6056

Qy        431 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 490

Db       6057 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 6116

Qy        491 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 550

Db       6117 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 6176

Qy        551 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 610

Db       6177 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 6236

Qy        611 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 670

Db       6237 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 6296

Qy        671 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 730

Db       6297 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 6356

Qy        731 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 790

Db       6357 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 6416

Qy        791 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 850

Db       6417 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 6476

Qy        851 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 910

Db       6477 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 6536

Qy        911 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 970

Db       6537 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 6596

Qy        971 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 1030

Db       6597 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 6656

Qy       1031 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 1090

Db       6657 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 6716

Qy       1091 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 1150

Db       6717 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 6776

Qy       1151 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 1210

Db       6777 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 6836

Qy       1211 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 1270

Db       6837 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 6896

Qy       1271 CCTGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 1330

Db       6897 CCTCCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 6956

Qy       1331 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 1390

Db       6957 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 7016

Qy       1391 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 1450

Db       7017 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 7076

Qy       1451 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 1510

Db       7077 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 7136

Qy       1511 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 1570

Db       7137 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 7196

Qy       1571 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 1630

Db       7197 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 7256

Qy       1631 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 1690

Db       7257 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 7316

Qy       1691 TGGGCAACACTGAGCAAAACTGCCTGTCGTGAAAAAAAAAAAAAAAAAA 1739

Db       7317 TGGGCAACACAGCAAAACTCTGTCTAAAAAAAAAAAAAAAAAAGAGAGA 7365
```

RESULT 3
US-09-949-016-11956
; Sequence 11956, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11956
; LENGTH: 20713
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(20713)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-11956

Query Match 97.7%; Score 1698.6; DB 4; Length 20713;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1710; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

```
Qy         11 CGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 70

Db       6718 CAGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 6777

Qy         71 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 130

Db       6778 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 6837

Qy        131 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 190
```

```
Db       6838 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 6897
Qy        191 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 250
Db       6898 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 6957
Qy        251 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATATCCTCA 310
Db       6958 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATGTCCTCA 7017
Qy        311 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 370
Db       7018 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 7077
Qy        371 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 430
Db       7078 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 7137
Qy        431 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 490
Db       7138 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 7197
Qy        491 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 550
Db       7198 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 7257
Qy        551 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 610
Db       7258 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 7317
Qy        611 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 670
Db       7318 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 7377
Qy        671 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 730
Db       7378 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 7437
Qy        731 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 790
Db       7438 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 7497
Qy        791 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 850
Db       7498 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 7557
Qy        851 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 910
Db       7558 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 7617
Qy        911 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 970
Db       7618 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 7677
Qy        971 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 1030
Db       7678 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 7737
Qy       1031 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 1090
Db       7738 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 7797
Qy       1091 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 1150
Db       7798 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 7857
Qy       1151 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 1210
Db       7858 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 7917
Qy       1211 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 1270
Db       7918 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 7977
Qy       1271 CCTGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 1330
Db       7978 CCTCCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 8037
Qy       1331 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 1390
Db       8038 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 8097
Qy       1391 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 1450
Db       8098 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 8157
Qy       1451 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 1510
Db       8158 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 8217
Qy       1511 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 1570
Db       8218 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 8277
Qy       1571 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 1630
Db       8278 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 8337
Qy       1631 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 1690
Db       8338 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 8397
Qy       1691 TGGGCAACACTGAGCAAAACTGCCTGTCGTGAAAAAAAAAAAAAAAAAAA 1739
Db       8398 TGGGCAACACAGCAAAACTCTGTCTAAAAAAAAAAAAAAAAAAAGAGAGA 8446
```

RESULT 4
US-09-949-016-14403
; Sequence 14403, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14403
; LENGTH: 20727
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(20727)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14403

Query Match 97.7%; Score 1698.6; DB 4; Length 20727;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1710; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

```
Qy          11 CGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 70
Db        6718 CAGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 6777
Qy          71 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 130
```

```
Db       6778 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 6837

Qy        131 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 190

Db       6838 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 6897

Qy        191 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 250

Db       6898 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 6957

Qy        251 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATATCCTCA 310

Db       6958 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATGTCCTCA 7017

Qy        311 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 370

Db       7018 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 7077

Qy        371 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 430

Db       7078 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 7137

Qy        431 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 490

Db       7138 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 7197

Qy        491 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 550

Db       7198 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 7257

Qy        551 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 610

Db       7258 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 7317

Qy        611 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 670

Db       7318 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 7377

Qy        671 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 730

Db       7378 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 7437

Qy        731 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 790

Db       7438 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 7497

Qy        791 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 850

Db       7498 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 7557

Qy        851 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 910

Db       7558 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 7617

Qy        911 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 970

Db       7618 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 7677

Qy        971 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 1030

Db       7678 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 7737

Qy       1031 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 1090

Db       7738 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 7797

Qy       1091 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 1150

Db       7798 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 7857

Qy       1151 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 1210

Db       7858 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 7917

Qy       1211 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 1270

Db       7918 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 7977

Qy       1271 CCTGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 1330

Db       7978 CCTCCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 8037

Qy       1331 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 1390

Db       8038 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 8097

Qy       1391 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 1450

Db       8098 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 8157

Qy       1451 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 1510

Db       8158 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 8217

Qy       1511 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 1570

Db       8218 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 8277

Qy       1571 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 1630

Db       8278 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 8337

Qy       1631 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 1690

Db       8338 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 8397

Qy       1691 TGGGCAACACTGAGCAAAACTGCCTGTCGTGAAAAAAAAAAAAAAAAAA 1739

Db       8398 TGGGCAACACAGCAAAACTCTGTCTAAAAAAAAAAAAAAAAAAGAGAGA 8446
```

RESULT 5
US-09-949-016-14404
; Sequence 14404, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14404
; LENGTH: 20727
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(20727)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14404

Query Match 97.7%; Score 1698.6; DB 4; Length 20727;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1710; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

```
Qy         11 CGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 70
```

```
Db       6718 CAGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 6777
Qy         71 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 130
Db       6778 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 6837
Qy        131 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 190
Db       6838 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 6897
Qy        191 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 250
Db       6898 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 6957
Qy        251 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATATCCTCA 310
Db       6958 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATGTCCTCA 7017
Qy        311 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 370
Db       7018 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 7077
Qy        371 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 430
Db       7078 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 7137
Qy        431 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 490
Db       7138 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 7197
Qy        491 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 550
Db       7198 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 7257
Qy        551 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 610
Db       7258 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 7317
Qy        611 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 670
Db       7318 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 7377
Qy        671 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 730
Db       7378 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 7437
Qy        731 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 790
Db       7438 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 7497
Qy        791 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 850
Db       7498 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 7557
Qy        851 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 910
Db       7558 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 7617
Qy        911 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 970
Db       7618 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 7677
Qy        971 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 1030
Db       7678 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 7737
Qy       1031 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 1090
Db       7738 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 7797
Qy       1091 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 1150
Db       7798 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 7857
Qy       1151 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 1210
Db       7858 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 7917
Qy       1211 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 1270
Db       7918 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 7977
Qy       1271 CCTGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 1330
Db       7978 CCTCCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 8037
Qy       1331 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 1390
Db       8038 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 8097
Qy       1391 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 1450
Db       8098 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 8157
Qy       1451 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 1510
Db       8158 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 8217
Qy       1511 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 1570
Db       8218 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 8277
Qy       1571 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 1630
Db       8278 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 8337
Qy       1631 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 1690
Db       8338 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 8397
Qy       1691 TGGGCAACACTGAGCAAAACTGCCTGTCGTGAAAAAAAAAAAAAAAAAAA 1739
Db       8398 TGGGCAACACAGCAAAACTCTGTCTAAAAAAAAAAAAAAAAAAAGAGAGA 8446
```

```
RESULT 6
US-09-949-016-15291
; Sequence 15291, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15291
;   LENGTH: 20728
;   TYPE: DNA
;   ORGANISM: Human
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(20728)
;   OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15291

  Query Match             97.7%;  Score 1698.6;  DB 4;  Length 20728;
```

```
  Best Local Similarity   98.9%;  Pred. No. 0;
  Matches 1710;  Conservative    0;  Mismatches   19;  Indels    0;  Gaps    0;

Qy         11 CGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 70
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       6718 CAGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 6777

Qy         71 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 130
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       6778 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 6837

Qy        131 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 190
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       6838 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 6897

Qy        191 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 250
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       6898 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 6957

Qy        251 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATATCCTCA 310
              |||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||
Db       6958 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATGTCCTCA 7017

Qy        311 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 370
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7018 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 7077

Qy        371 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 430
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7078 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 7137

Qy        431 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 490
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7138 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 7197

Qy        491 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 550
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7198 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 7257

Qy        551 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 610
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7258 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 7317

Qy        611 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 670
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7318 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 7377

Qy        671 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 730
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7378 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 7437

Qy        731 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 790
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7438 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 7497

Qy        791 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 850
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7498 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 7557

Qy        851 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 910
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7558 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 7617

Qy        911 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 970
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7618 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 7677

Qy        971 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 1030
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7678 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 7737

Qy       1031 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 1090
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db       7738 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 7797

Qy       1091 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 1150
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7798 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 7857

Qy       1151 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 1210
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7858 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 7917

Qy       1211 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 1270
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7918 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 7977

Qy       1271 CCTGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 1330
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7978 CCTCCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 8037

Qy       1331 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 1390
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8038 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 8097

Qy       1391 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 1450
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8098 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 8157

Qy       1451 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 1510
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8158 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 8217

Qy       1511 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 1570
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8218 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 8277

Qy       1571 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 1630
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8278 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 8337

Qy       1631 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 1690
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8338 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 8397

Qy       1691 TGGGCAACACTGAGCAAAACTGCCTGTCGTGAAAAAAAAAAAAAAAAAAA 1739
              |||||||||| |   ||  ||| ||      |||||||||||| | | |
Db       8398 TGGGCAACACAGCAAAACTCTGTCTAAAAAAAAAAAAAAAAAAAGAGAGA 8446


RESULT 7
US-09-949-016-15292
; Sequence 15292, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15292
;   LENGTH: 20728
;   TYPE: DNA
;   ORGANISM: Human
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(20728)
```

```
;   OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15292

  Query Match             97.7%;  Score 1698.6;  DB 4;  Length 20728;
  Best Local Similarity   98.9%;  Pred. No. 0;
  Matches 1710;  Conservative    0;  Mismatches   19;  Indels    0;  Gaps    0;

Qy         11 CGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 70
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       6718 CAGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 6777

Qy         71 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 130
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       6778 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 6837

Qy        131 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 190
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       6838 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 6897

Qy        191 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 250
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       6898 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 6957

Qy        251 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATATCCTCA 310
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       6958 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATGTCCTCA 7017

Qy        311 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 370
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7018 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 7077

Qy        371 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 430
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7078 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 7137

Qy        431 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 490
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7138 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 7197

Qy        491 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 550
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7198 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 7257

Qy        551 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 610
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7258 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCC 7317

Qy        611 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 670
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7318 CTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAA 7377

Qy        671 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 730
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7378 CGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAA 7437

Qy        731 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 790
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7438 TGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAG 7497

Qy        791 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 850
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7498 TGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAG 7557

Qy        851 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 910
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7558 ATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCT 7617

Qy        911 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 970
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7618 GACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTG 7677

Qy        971 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 1030
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7678 TCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCT 7737

Qy       1031 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 1090
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7738 CCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCAC 7797

Qy       1091 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 1150
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7798 AAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTG 7857

Qy       1151 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 1210
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7858 GGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATAC 7917

Qy       1211 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 1270
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7918 CACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCC 7977

Qy       1271 CCTGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 1330
               ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       7978 CCTCCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTG 8037

Qy       1331 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 1390
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8038 ATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTA 8097

Qy       1391 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 1450
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8098 CTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTA 8157

Qy       1451 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 1510
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8158 ATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCA 8217

Qy       1511 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 1570
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8218 GCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGT 8277

Qy       1571 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 1630
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8278 GGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAAT 8337

Qy       1631 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 1690
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8338 CACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCC 8397

Qy       1691 TGGGCAACACTGAGCAAAACTGCCTGTCGTGAAAAAAAAAAAAAAAAAAA 1739
               |||||||||| |   ||  ||| ||      |||||||||||| | | |
Db       8398 TGGGCAACACAGCAAAACTCTGTCTAAAAAAAAAAAAAAAAAAGAGAGA 8446

RESULT 8
US-09-495-050A-187
; Sequence 187, Application US/09495050A
; Patent No. 6492505
; GENERAL INFORMATION:
;  APPLICANT: Roopa, Reddy
;  APPLICANT:  Guegler, Karl, J.
;  APPLICANT:  Au-Young, Janice
;  TITLE OF INVENTION: COMPOSITION FOR DETECTION OF GENES ENCODING MEMBRANE-ASSOCIATED PR
;  FILE REFERENCE: PA-0013 US
;  CURRENT APPLICATION NUMBER: US/09/495,050A
;  CURRENT FILING DATE:  2000-01-31
;  PRIOR APPLICATION NUMBER: 60/118,318
;  PRIOR FILING DATE: February 1, 1999
;  NUMBER OF SEQ ID NOS: 305
;  SOFTWARE: PERL Program
; SEQ ID NO 187
;   LENGTH: 1249
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
```

```
;   OTHER INFORMATION: Incyte ID No. 6492505 2085633CB1
US-09-495-050A-187

  Query Match            71.6%;  Score 1245.4;  DB 4;  Length 1249;
  Best Local Similarity  99.9%;  Pred. No. 0;
  Matches 1246;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy        442 TGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCCTGGACAGGGGA 501
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 TGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCCTGGACAGGGGA 60

Qy        502 TGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAACAAGGGCCTTTG 561
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAACAAGGGCCTTTG 120

Qy        562 ATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCCCTATGGAAGAG 621
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCCCTATGGAAGAG 180

Qy        622 AGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAACGGAGCCACAG 681
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 AGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAACGGAGCCACAG 240

Qy        682 TGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAATGAGGGGTAGG 741
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAATGAGGGGTAGG 300

Qy        742 GAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAGTGGATAAGGCC 801
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 GAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAGTGGATAAGGCC 360

Qy        802 CCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAGATTTTGGGCTT 861
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 CCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAGATTTTGGGCTT 420

Qy        862 TAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCTGACTGAGTGAG 921
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCTGACTGAGTGAG 480

Qy        922 CAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCC 981
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCC 540

Qy        982 CCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCTTCTCCCAC 1041
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 CCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCTTCTCCCAC 600

Qy       1042 ACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAATGCACCAT 1101
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 ACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAATGCACCAT 660

Qy       1102 TCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGATGCGTTCA 1161
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 TCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGATGCGTTCA 720

Qy       1162 CTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCACTGTGAATC 1221
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 CTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCACTGTGAATC 780

Qy       1222 CTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCTGCATCTGT 1281
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        781 CTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCTGCATCTGT 840

Qy       1282 ACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATATGTTGGTG 1341
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        841 ACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATATGTTGGTG 900

Qy       1342 TTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTTCATGTTGA 1401
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        901 TTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTTCATGTTGA 960

Qy       1402 ATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGT 1461
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db        961 ATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGT 1020

Qy       1462 TTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAAT 1521
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1021 TTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAAT 1080

Qy       1522 ATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCT 1581
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1081 ATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCT 1140

Qy       1582 GTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCC 1641
              |||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1141 GTAATCCCGTGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCC 1200

Qy       1642 AGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAG 1688
              ||||||||||||||||||||||||||||||||||||||||||||||||
Db       1201 AGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAG 1247


RESULT 9
US-09-949-016-22336/c
; Sequence 22336, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22336
;   LENGTH: 601
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-22336

  Query Match            34.5%;  Score 600.6;  DB 4;  Length 601;
  Best Local Similarity  99.8%;  Pred. No. 3.5e-185;
  Matches  600;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        974 AGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCT 1033
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 AGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCT 542

Qy       1034 TCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAA 1093
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAA 482

Qy       1094 TGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGA 1153
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 TGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGA 422

Qy       1154 TGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCAC 1213
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCAC 362

Qy       1214 TGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCT 1273
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 TGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCT 302

Qy       1274 GCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATA 1333
              :||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 SCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATA 242

Qy       1334 TGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTT 1393
```

```
Db        241 TGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTT 182

Qy       1394 CATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATC 1453

Db        181 CATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATC 122

Qy       1454 CCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCC 1513

Db        121 CCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCC 62

Qy       1514 TGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGC 1573

Db          61 TGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGC 2

Qy       1574 T 1574

Db          1 T 1
```

RESULT 10
US-09-949-016-92741/c
; Sequence 92741, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 92741
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-92741

Query Match 34.5%; Score 600.6; DB 4; Length 601;
Best Local Similarity 99.8%; Pred. No. 3.5e-185;
Matches 600; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy        974 AGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCT 1033

Db        601 AGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCT 542

Qy       1034 TCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAA 1093

Db        541 TCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAA 482

Qy       1094 TGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGA 1153

Db        481 TGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGA 422

Qy       1154 TGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCAC 1213

Db        421 TGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCAC 362

Qy       1214 TGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCT 1273

Db        361 TGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCT 302

Qy       1274 GCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATA 1333

Db        301 SCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATA 242
```

```
Qy       1334 TGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTT 1393

Db        241 TGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTT 182

Qy       1394 CATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATC 1453

Db        181 CATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATC 122

Qy       1454 CCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCC 1513

Db        121 CCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCC 62

Qy       1514 TGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGC 1573

Db          61 TGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGC 2

Qy       1574 T 1574

Db          1 T 1
```

RESULT 11
US-09-949-016-92755/c
; Sequence 92755, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 92755
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-92755

Query Match 34.5%; Score 600.6; DB 4; Length 601;
Best Local Similarity 99.8%; Pred. No. 3.5e-185;
Matches 600; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy        974 AGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCT 1033

Db        601 AGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCT 542

Qy       1034 TCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAA 1093

Db        541 TCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAA 482

Qy       1094 TGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGA 1153

Db        481 TGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGA 422

Qy       1154 TGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCAC 1213

Db        421 TGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCAC 362

Qy       1214 TGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCT 1273

Db        361 TGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCT 302

Qy       1274 GCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATA 1333

Db        301 SCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATA 242
```

```
Qy       1334 TGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTT 1393
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTT 182

Qy       1394 CATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATC 1453
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 CATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATC 122

Qy       1454 CCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCC 1513
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         121 CCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCC 62

Qy       1514 TGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGC 1573
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          61 TGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGC 2

Qy       1574 T 1574
              |
Db          1 T 1
```

RESULT 12
US-09-949-016-92769/c
; Sequence 92769, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 92769
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-92769

Query Match 34.5%; Score 600.6; DB 4; Length 601;
Best Local Similarity 99.8%; Pred. No. 3.5e-185;
Matches 600; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy        974 AGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCT 1033
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 AGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCT 542

Qy       1034 TCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAA 1093
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAA 482

Qy       1094 TGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGA 1153
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 TGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGA 422

Qy       1154 TGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCAC 1213
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCAC 362

Qy       1214 TGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCT 1273
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 TGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCT 302

Qy       1274 GCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATA 1333
              :||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Db        301 SCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATA 242

Qy       1334 TGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTT 1393
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTT 182

Qy       1394 CATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATC 1453
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 CATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATC 122

Qy       1454 CCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCC 1513
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         121 CCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCC 62

Qy       1514 TGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGC 1573
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          61 TGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGC 2

Qy       1574 T 1574
              |
Db          1 T 1
```

RESULT 13
US-09-949-016-92783/c
; Sequence 92783, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 92783
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-92783

Query Match 34.5%; Score 600.6; DB 4; Length 601;
Best Local Similarity 99.8%; Pred. No. 3.5e-185;
Matches 600; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy        974 AGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCT 1033
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 AGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCT 542

Qy       1034 TCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAA 1093
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAA 482

Qy       1094 TGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGA 1153
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 TGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGA 422

Qy       1154 TGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCAC 1213
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCAC 362

Qy       1214 TGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCT 1273
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 TGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCT 302

Qy       1274 GCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATA 1333
```

```
                :||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 SCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATA 242

Qy       1334 TGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTT 1393
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTT 182

Qy       1394 CATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATC 1453
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 CATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATC 122

Qy       1454 CCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCC 1513
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 CCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCC 62

Qy       1514 TGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGC 1573
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          61 TGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGC 2

Qy       1574 T 1574
                |
Db          1 T 1
```

RESULT 14
US-09-949-016-22337/c
; Sequence 22337, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22337
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-22337

Query Match 34.0%; Score 592; DB 4; Length 601;
Best Local Similarity 99.7%; Pred. No. 2.2e-182;
Matches 592; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy         11 CGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 70
                | ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        594 CAGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 535

Qy         71 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 130
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        534 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 475

Qy        131 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 190
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        474 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 415

Qy        191 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 250
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        414 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 355

Qy        251 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATATCCTCA 310
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||:||||||
Db        354 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATRTCCTCA 295

Qy        311 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 370
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        294 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 235

Qy        371 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 430
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        234 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 175

Qy        431 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 490
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        174 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 115

Qy        491 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 550
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        114 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 55

Qy        551 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTAC 604
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         54 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTAC 1
```

RESULT 15
US-09-949-016-92740/c
; Sequence 92740, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 92740
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-92740

Query Match 34.0%; Score 592; DB 4; Length 601;
Best Local Similarity 99.7%; Pred. No. 2.2e-182;
Matches 592; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy         11 CGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 70
                | ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        594 CAGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCC 535

Qy         71 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 130
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        534 AGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGC 475

Qy        131 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 190
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        474 CGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACT 415

Qy        191 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 250
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        414 GAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTC 355

Qy        251 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATATCCTCA 310
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||:||||||
Db        354 AGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATRTCCTCA 295

Qy        311 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 370
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        294 TCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTA 235
```

```
Qy        371 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 430
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        234 AATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTA 175

Qy        431 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 490
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        174 AGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCC 115

Qy        491 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 550
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        114 TGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAAC 55

Qy        551 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTAC 604
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         54 AAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTAC 1
```

Search completed: February 6, 2005, 20:59:05
Job time : 299.245 secs

THIS PAGE LEFT BLANK

THIS PAGE LEFT BLANK

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: February 6, 2005, 20:39:38 ; Search time 961.108 Seconds
(without alignments)
10414.270 Million cell updates/sec

Title: US-09-864-711-4
Perfect score: 1739
Sequence: 1 cccacgcgtccgggggcatg.....tgaaaaaaaaaaaaaaaaa 1739

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4313806 seqs, 2877871033 residues

Total number of hits satisfying chosen parameters: 8627612

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
19: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
20: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
21: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	1739	100.0	1739	9	US-09-864-711-4	Sequence 4, Appli
	2	1372	78.9	1420	9	US-09-872-153-9	Sequence 9, Appli
	3	1245.4	71.6	1249	15	US-10-313-542-187	Sequence 187, App
c	4	402	23.1	402	14	US-10-060-036-3766	Sequence 3766, Ap
c	5	402	23.1	402	14	US-10-060-036-4049	Sequence 4049, Ap
	6	194.2	11.2	174448	13	US-10-087-192-148	Sequence 148, App
	7	193.2	11.1	169567	18	US-10-719-993-6774	Sequence 6774, Ap
c	8	192.6	11.1	2655	13	US-10-027-632-250936	Sequence 250936,
c	9	192.6	11.1	2655	13	US-10-027-632-250937	Sequence 250937,
c	10	192.6	11.1	2655	13	US-10-027-632-250938	Sequence 250938,
c	11	192.6	11.1	2655	13	US-10-027-632-250939	Sequence 250939,
c	12	192.6	11.1	2655	17	US-10-027-632-250936	Sequence 250936,
c	13	192.6	11.1	2655	17	US-10-027-632-250937	Sequence 250937,
c	14	192.6	11.1	2655	17	US-10-027-632-250938	Sequence 250938,
c	15	192.6	11.1	2655	17	US-10-027-632-250939	Sequence 250939,
c	16	190.8	11.0	108316	17	US-10-292-798-1789	Sequence 1789, Ap
c	17	190.8	11.0	108317	15	US-10-017-161-2143	Sequence 2143, Ap
	18	190	10.9	46846	13	US-10-087-192-1018	Sequence 1018, Ap
	19	189.4	10.9	35425	15	US-10-017-161-2429	Sequence 2429, Ap
	20	189.4	10.9	35425	17	US-10-292-798-2069	Sequence 2069, Ap
	21	189	10.9	65454	17	US-10-293-864-11	Sequence 11, Appl
	22	188.8	10.9	32404	11	US-09-997-722-160	Sequence 160, App
	23	187.6	10.8	1960	17	US-10-108-260A-1665	Sequence 1665, Ap
	24	187.4	10.8	24318	18	US-10-322-281-504	Sequence 504, App
c	25	187.2	10.8	32757	18	US-10-322-281-140	Sequence 140, App
	26	186.2	10.7	64011	18	US-10-719-993-6991	Sequence 6991, Ap
c	27	186.2	10.7	85571	18	US-10-719-993-6778	Sequence 6778, Ap
	28	186.2	10.7	91352	17	US-10-300-611-4	Sequence 4, Appli
c	29	185.8	10.7	2049	13	US-10-027-632-99848	Sequence 99848, A
c	30	185.8	10.7	2049	17	US-10-027-632-99848	Sequence 99848, A
	31	185.4	10.7	176001	17	US-10-210-556-27	Sequence 27, Appl
	32	185.4	10.7	186739	17	US-10-210-556-19	Sequence 19, Appl
c	33	185.4	10.7	430442	18	US-10-417-375-128	Sequence 128, App
c	34	185.2	10.6	22111	17	US-10-212-993-11	Sequence 11, Appl
	35	185.2	10.6	69770	17	US-10-292-798-1323	Sequence 1323, Ap
	36	184.4	10.6	5197	9	US-09-860-670-248	Sequence 248, App
	37	184.4	10.6	5197	17	US-10-227-646-248	Sequence 248, App
	38	184.4	10.6	14426	9	US-09-860-670-249	Sequence 249, App
	39	184.4	10.6	14426	9	US-09-860-670-252	Sequence 252, App
	40	184.4	10.6	14426	17	US-10-227-646-249	Sequence 249, App
	41	184.4	10.6	14426	17	US-10-227-646-252	Sequence 252, App
c	42	184.4	10.6	90541	9	US-09-759-359A-3	Sequence 3, Appli
c	43	184.4	10.6	90541	16	US-10-207-973-3	Sequence 3, Appli
c	44	184.4	10.6	90541	18	US-10-799-676-3	Sequence 3, Appli
	45	184.2	10.6	31277	13	US-10-087-192-1510	Sequence 1510, Ap

ALIGNMENTS

RESULT 1
US-09-864-711-4
; Sequence 4, Application US/09864711
; Patent No. US20020077309A1
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Klingler, Tod M.
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS
; FILE REFERENCE: PB-0008-1 CIP
; CURRENT APPLICATION NUMBER: US/09/864,711
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PERL Program
; SEQ ID NO 4
; LENGTH: 1739
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: 888309CB1
US-09-864-711-4

Query Match 100.0%; Score 1739; DB 9; Length 1739;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1739; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 CCCACGCGTCCGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CCCACGCGTCCGGGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTG 60

Qy         61 CTGTAAAGCCAGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTGTAAAGCCAGTGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCA 120
```

```
Qy       121 GCTGCTGGGCCGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGA 180
Db       121 GCTGCTGGGCCGTGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGA 180

Qy       181 TGAAGACACTGAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGG 240
Db       181 TGAAGACACTGAAGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGG 240

Qy       241 TCTTCATGTCAGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTG 300
Db       241 TCTTCATGTCAGGGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTG 300

Qy       301 AATATCCTCATCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATT 360
Db       301 AATATCCTCATCTGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATT 360

Qy       361 GTGAGAACTAAATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTC 420
Db       361 GTGAGAACTAAATCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTC 420

Qy       421 CCAGGAGGTAAGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAG 480
Db       421 CCAGGAGGTAAGCAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAG 480

Qy       481 CACTAAGCCCTGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACT 540
Db       481 CACTAAGCCCTGGACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACT 540

Qy       541 GAACTCTAACAAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACA 600
Db       541 GAACTCTAACAAGGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACA 600

Qy       601 CTACAAGTCCCTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACAC 660
Db       601 CTACAAGTCCCTATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACAC 660

Qy       661 ATTTGGAAAACGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCA 720
Db       661 ATTTGGAAAACGGAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCA 720

Qy       721 CCCTGGGAAATGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCT 780
Db       721 CCCTGGGAAATGAGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCT 780

Qy       781 GCTCATTGAGTGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATC 840
Db       781 GCTCATTGAGTGGATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATC 840

Qy       841 ACAGAGTCAGATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGAC 900
Db       841 ACAGAGTCAGATTTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGAC 900

Qy       901 AGTCTCAGCTGACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACA 960
Db       901 AGTCTCAGCTGACTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACA 960

Qy       961 ATGATGAGTGTCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTC 1020
Db       961 ATGATGAGTGTCCAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTC 1020

Qy      1021 ACTTCCATCTCCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCT 1080
Db      1021 ACTTCCATCTCCTTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCT 1080

Qy      1081 GAAATTCCACAAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTC 1140
Db      1081 GAAATTCCACAAATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTC 1140

Qy      1141 CCTTAGCCTGGGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCA 1200
Db      1141 CCTTAGCCTGGGATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCA 1200

Qy      1201 AATTTCATACCACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTT 1260
Db      1201 AATTTCATACCACTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTT 1260

Qy      1261 CTCTGCTCCCCCTGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAA 1320
Db      1261 CTCTGCTCCCCCTGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAA 1320

Qy      1321 TAAACTGTTGATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCAT 1380
Db      1321 TAAACTGTTGATATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCAT 1380

Qy      1381 GCCTTATTTACTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCT 1440
Db      1381 GCCTTATTTACTTCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCT 1440

Qy      1441 CATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAG 1500
Db      1441 CATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAG 1500

Qy      1501 TTTGAAACCAGCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGC 1560
Db      1501 TTTGAAACCAGCCTGGCCAATATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGC 1560

Qy      1561 CAGGTGTGGTGGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAG 1620
Db      1561 CAGGTGTGGTGGCTCATGCCTGTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAG 1620

Qy      1621 GCAGGAGAATCACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTG 1680
Db      1621 GCAGGAGAATCACTTGAATCCAGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTG 1680

Qy      1681 CACTCCAGCCTGGGCAACACTGAGCAAAACTGCCTGTCGTGAAAAAAAAAAAAAAAAAA 1739
Db      1681 CACTCCAGCCTGGGCAACACTGAGCAAAACTGCCTGTCGTGAAAAAAAAAAAAAAAAAA 1739
```

RESULT 2
US-09-872-153-9
; Sequence 9, Application US/09872153
; Patent No. US20020082207A1
; GENERAL INFORMATION:
; APPLICANT: Hirst, Shannon K.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Kalos, Michael D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER
; FILE REFERENCE: 210121.531
; CURRENT APPLICATION NUMBER: US/09/872,153
; CURRENT FILING DATE: 2001-05-31
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1420
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(1420)
; OTHER INFORMATION: n = A,T,C or G
US-09-872-153-9

Query Match 78.9%; Score 1372; DB 9; Length 1420;
Best Local Similarity 96.6%; Pred. No. 0;
Matches 1372; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

```
Qy        13 GGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCCAG 72
Db         1 GGGGCATGGACCTGAGGTCAAGGGAATGTGGGCTCTCCAATCCATTTGCTGTAAAGCCAG 60

Qy        73 TGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGCCG 132
Db        61 TGGGTTTGCAAGGATAGGAGGGCAGGGTTGGAGCAAATTTCCAGGTCAGCTGCTGGGCCG 120
```

```
Qy       133 TGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACTGA 192
Db       121 TGGCCTCAGGAAATGGTTCTGACATGGGCAGGCTTGACCCCTGAGGGATGAAGACACTGA 180

Qy       193 AGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTCAG 252
Db       181 AGATGATAATTCTGCTAATGTAGGAGCTATGTTTTCATAGCCACAGGGTCTTCATGTCAG 240

Qy       253 GGACATGGGCAGACTTCTGGGGACAAGTCACTACTGTCTCTGAGCCTGAATATCCTCATC 312
Db       241 GGACATGGGCAGACTTCTGGGGACAAGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 300

Qy       313 TGTAAAATGAGGATAAGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTAAA 372
Db       301 NNNNNNNNNNNNNNNGGTAATAATAATACCCACCATACAGGGCTATTGTGAGAACTAAA 360

Qy       373 TCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTAAG 432
Db       361 TCAGAGCAGTCCAATTGGGCAGGCTCAGGAGGTGATGAATTTCTCGTCCCAGGAGGTAAG 420

Qy       433 CAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCCTG 492
Db       421 CAAGCAGAGTGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCCTG 480

Qy       493 GACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAACAA 552
Db       481 GACAGGGGATGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAACAA 540

Qy       553 GGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCCCT 612
Db       541 GGGCCTTTGATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCCCT 600

Qy       613 ATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAACG 672
Db       601 ATGGAAGAGAGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAACG 660

Qy       673 GAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAATG 732
Db       661 GAGCCACAGTGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAATG 720

Qy       733 AGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAGTG 792
Db       721 AGGGGTAGGGAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAGTG 780

Qy       793 GATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAGAT 852
Db       781 GATAAGGCCCCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAGAT 840

Qy       853 TTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCTGA 912
Db       841 TTTGGGCTTTAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCTGA 900

Qy       913 CTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTGTC 972
Db       901 CTGAGTGAGCAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTGTC 960

Qy       973 CAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCC 1032
Db       961 CAGTGGGCCCCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCC 1020

Qy      1033 TTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAA 1092
Db      1021 TTCTCCCACACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAA 1080

Qy      1093 ATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGG 1152
Db      1081 ATGCACCATTCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGG 1140

Qy      1153 ATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCA 1212
Db      1141 ATGCGTTCACTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCA 1200

Qy      1213 CTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCC 1272
Db      1201 CTGTGAATCCTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCC 1260

Qy      1273 TGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGAT 1332
Db      1261 TGCATCTGTACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGAT 1320

Qy      1333 ATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACT 1392
Db      1321 ATGTTGGTGTTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACT 1380

Qy      1393 TCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTA 1432
Db      1381 TCATGTTGAATGCACCTAGCATTTGAGAAGGTGGTTGGTA 1420
```

RESULT 3
US-10-313-542-187
; Sequence 187, Application US/10313542
; Publication No. US20030120057A1
; GENERAL INFORMATION:
; APPLICANT: Roopa, Reddy
; APPLICANT: Guegler, Karl, J.
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: COMPOSITION FOR DETECTION OF GENES ENCODING MEMBRANE-ASSOCIATED P
; FILE REFERENCE: PA-0013 US
; CURRENT APPLICATION NUMBER: US/10/313,542
; CURRENT FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: US/09/495,050
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/118,318
; PRIOR FILING DATE: 1999-02-01
; NUMBER OF SEQ ID NOS: 305
; SOFTWARE: PERL Program
; SEQ ID NO 187
; LENGTH: 1249
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030120057A1 2085633CB1
US-10-313-542-187

Query Match 71.6%; Score 1245.4; DB 15; Length 1249;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy       442 TGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCCTGGACAGGGGA 501
Db         1 TGAGATGTCCCATGGGTAGGGATGTCATAGACAAACAAGCACTAAGCCCTGGACAGGGGA 60

Qy       502 TGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAACAAGGGCCTTTG 561
Db        61 TGGATGAGCCTCCCACTGAGATTATTTCCCTCCATCACTGAACTCTAACAAGGGCCTTTG 120

Qy       562 ATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCCCTATGGAAGAG 621
Db       121 ATCTTGCCTTTGGCACAAGCATGCCTTCCTCTGAGCACACTACAAGTCCCTATGGAAGAG 180

Qy       622 AGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAACGGAGCCACAG 681
Db       181 AGAGTGTTCTAGGCAGCAGGACAAGAAGGAGCATGACACATTTGGAAAACGGAGCCACAG 240

Qy       682 TGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAATGAGGGGTAGG 741
Db       241 TGTGAACAGGGCGATGCTTAGATGTGCCCAGCAGAAGCACCCTGGGAAATGAGGGGTAGG 300

Qy       742 GAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAGTGGATAAGGCC 801
Db       301 GAACAACCAACAACCTTGATCTCCTTGAAGACTCTTTCTGCTCATTGAGTGGATAAGGCC 360

Qy       802 CCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAGATTTTGGGCTT 861
```

```
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 CCAGAGATTCAGTGTGGTTTTCTGGGGTTTGGGCCCATCACAGAGTCAGATTTTGGGCTT 420

Qy        862 TAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCTGACTGAGTGAG 921
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TAAGGAGGCCCTCCCTGTACCTGGATGGGCTCCAAGGACAGTCTCAGCTGACTGAGTGAG 480

Qy        922 CAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCC 981
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CAGGTGGCCTGCCTCAAGTCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCC 540

Qy        982 CCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCTTCTCCCAC 1041
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 CCATTGCTTGCAGACACATCCCTCTGTGCTCTGACTTTCACTTCCATCTCCTTCTCCCAC 600

Qy       1042 ACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAATGCACCAT 1101
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 ACCCTGCTCTCATTTTAGGTTCCTGCGCCTCTGAACTCTGAAATTCCACAAATGCACCAT 660

Qy       1102 TCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGATGCGTTCA 1161
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 TCCCTCTATCCCATCTCCATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGATGCGTTCA 720

Qy       1162 CTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCACTGTGAATC 1221
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 CTTGCTTTACTGACTTGCAAAACTCCTACCCACGTTTCAAATTTCATACCACTGTGAATC 780

Qy       1222 CTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCTGCATCTGT 1281
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        781 CTTCCCTGACTTCACCAAGAGACTCAGATAGACCTTCTTCTCTGCTCCCCCTGCATCTGT 840

Qy       1282 ACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATATGTTGGTG 1341
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        841 ACATACTTCTGTCTGTATCTTTATCATATTGAAGTATAATAAACTGTTGATATGTTGGTG 900

Qy       1342 TTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTTCATGTTGA 1401
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        901 TTTACACAAGACCAAGAAATCCTCATGGGCCAAGTCCATGCCTTATTTACTTCATGTTGA 960

Qy       1402 ATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGT 1461
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        961 ATGCACCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGT 1020

Qy       1462 TTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAAT 1521
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1021 TTGGGAGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAAT 1080

Qy       1522 ATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCT 1581
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1081 ATGGCAAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCT 1140

Qy       1582 GTAATCCCATGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCC 1641
              |||||||| |||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1141 GTAATCCCGTGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCC 1200

Qy       1642 AGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAG 1688
              |||||||||||||||||||||||||||||||||||||||||||||||
Db       1201 AGGAGGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAG 1247
```

RESULT 4
US-10-060-036-3766/c
; Sequence 3766, Application US/10060036
; Publication No. US20030073144A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Persing, David H.
; APPLICANT: Hepler, William T.
; APPLICANT: Jiang, Yuqiu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER
; FILE REFERENCE: 210121.566
; CURRENT APPLICATION NUMBER: US/10/060,036
; CURRENT FILING DATE: 2002-01-30
; NUMBER OF SEQ ID NOS: 4560
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3766
;   LENGTH: 402
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-060-036-3766

```
  Query Match             23.1%;  Score 402;  DB 14;  Length 402;
  Best Local Similarity   100.0%;  Pred. No. 5.4e-118;
  Matches  402;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        880 ACCTGGATGGGCTCCAAGGACAGTCTCAGCTGACTGAGTGAGCAGGTGGCCTGCCTCAAG 939
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        402 ACCTGGATGGGCTCCAAGGACAGTCTCAGCTGACTGAGTGAGCAGGTGGCCTGCCTCAAG 343

Qy        940 TCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCCCCATTGCTTGCAGACACA 999
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        342 TCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCCCCATTGCTTGCAGACACA 283

Qy       1000 TCCCTCTGTGCTCTGACTTTCACTTCCATCTCCTTCTCCCACACCCTGCTCTCATTTTAG 1059
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        282 TCCCTCTGTGCTCTGACTTTCACTTCCATCTCCTTCTCCCACACCCTGCTCTCATTTTAG 223

Qy       1060 GTTCCTGCGCCTCTGAACTCTGAAATTCCACAAATGCACCATTCCCTCTATCCCATCTCC 1119
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        222 GTTCCTGCGCCTCTGAACTCTGAAATTCCACAAATGCACCATTCCCTCTATCCCATCTCC 163

Qy       1120 ATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGATGCGTTCACTTGCTTTACTGACTTGC 1179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        162 ATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGATGCGTTCACTTGCTTTACTGACTTGC 103

Qy       1180 AAAACTCCTACCCACGTTTCAAATTTCATACCACTGTGAATCCTTCCCTGACTTCACCAA 1239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        102 AAAACTCCTACCCACGTTTCAAATTTCATACCACTGTGAATCCTTCCCTGACTTCACCAA 43

Qy       1240 GAGACTCAGATAGACCTTCTTCTCTGCTCCCCCTGCATCTGT 1281
              ||||||||||||||||||||||||||||||||||||||||||
Db         42 GAGACTCAGATAGACCTTCTTCTCTGCTCCCCCTGCATCTGT 1
```

RESULT 5
US-10-060-036-4049/c
; Sequence 4049, Application US/10060036
; Publication No. US20030073144A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Persing, David H.
; APPLICANT: Hepler, William T.
; APPLICANT: Jiang, Yuqiu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER
; FILE REFERENCE: 210121.566
; CURRENT APPLICATION NUMBER: US/10/060,036
; CURRENT FILING DATE: 2002-01-30
; NUMBER OF SEQ ID NOS: 4560
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4049
;   LENGTH: 402
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-060-036-4049

```
  Query Match             23.1%;  Score 402;  DB 14;  Length 402;
  Best Local Similarity   100.0%;  Pred. No. 5.4e-118;
  Matches  402;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        880 ACCTGGATGGGCTCCAAGGACAGTCTCAGCTGACTGAGTGAGCAGGTGGCCTGCCTCAAG 939
```

```
Db        402 ACCTGGATGGGCTCCAAGGACAGTCTCAGCTGACTGAGTGAGCAGGTGGCCTGCCTCAAG 343

Qy        940 TCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCCCCATTGCTTGCAGACACA 999
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        342 TCTTCATCAGTGGCCAGCACAATGATGAGTGTCCAGTGGGCCCCATTGCTTGCAGACACA 283

Qy       1000 TCCCTCTGTGCTCTGACTTTCACTTCCATCTCCTTCTCCCACACCCTGCTCTCATTTTAG 1059
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        282 TCCCTCTGTGCTCTGACTTTCACTTCCATCTCCTTCTCCCACACCCTGCTCTCATTTTAG 223

Qy       1060 GTTCCTGCGCCTCTGAACTCTGAAATTCCACAAATGCACCATTCCCTCTATCCCATCTCC 1119
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        222 GTTCCTGCGCCTCTGAACTCTGAAATTCCACAAATGCACCATTCCCTCTATCCCATCTCC 163

Qy       1120 ATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGATGCGTTCACTTGCTTTACTGACTTGC 1179
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        162 ATGCTTTTGCCTCTCCTGTTCCCTTAGCCTGGGATGCGTTCACTTGCTTTACTGACTTGC 103

Qy       1180 AAAACTCCTACCCACGTTTCAAATTTCATACCACTGTGAATCCTTCCCTGACTTCACCAA 1239
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        102 AAAACTCCTACCCACGTTTCAAATTTCATACCACTGTGAATCCTTCCCTGACTTCACCAA 43

Qy       1240 GAGACTCAGATAGACCTTCTTCTCTGCTCCCCCTGCATCTGT 1281
              |||||||||||||||||||||||||||||||||||||||||
Db          42 GAGACTCAGATAGACCTTCTTCTCTGCTCCCCCTGCATCTGT 1
```

RESULT 6
US-10-087-192-148
; Sequence 148, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 174448
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(174448)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-148

Query Match 11.2%; Score 194.2; DB 13; Length 174448;
Best Local Similarity 76.1%; Pred. No. 1.1e-49;
Matches 252; Conservative 0; Mismatches 78; Indels 1; Gaps 1;

```
Qy       1407 CCTAGCATTTGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGTTTGGG 1466
              | ||  |  | | ||  || | |||| ||||||||  |||||||||| | || ||||||
Db     135337 CTTAAAACCTTATAAATTGCTGGGTACAGTGGCTCACACCTGTAATCCAAGCACTTTGGG 135396

Qy       1467 AGGCTGAGGCCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAATATGGC 1526
              ||||  |||||  ||||||||  |||||||  |||||||||||  ||||||||||||||  ||||
Db     135397 AGGCCGAGGCAGGCAGATCACTTGAGGCCAGGAGTTTGAGACCAGCCTGGCCAACATGGT 135456

Qy       1527 AAAACCCCATCTTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAAT 1586
              ||||||||||| || |||||||| |||||||||||| |||||||    ||||||||||
Db     135457 GAAACCCCATCTCTACAAAAATACAAAAATTAGCCAGGCGTGGTGGTGGGTGCCTGTAAT 135516

Qy       1587 CCCA-TGCCTGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGA 1645
              ||||    ||       |     ||||| |||||||||||||||||||||||| ||||||
Db     135517 CCCAGCTACTCAGGAGGCCAAGGTGGGAAGCTGAGGCAGGAGAATCACTTGAAGCCAGGA 135576

Qy       1646 GGCAGAGGTTGCAGTGAACTGAGATTGGACCACTGCACTCCAGCCTGGGCAACACTGAGC 1705
              ||  |||||||||||| | ||||||| |||| ||| ||||||||||||  |||  | |
Db     135577 GGTGGAGGTTGCAGTGAGCAGAGATTGCACCATTGCGCTCCAGCCTGGGTGACAGAGTGA 135636

Qy       1706 AAAACTGCCTGTCGTGAAAAAAAAAAAAAAA 1736
              |  |||  ||        |  || || |||||
Db     135637 GACTCTGTCTCAAAAACAGCAACAACAAAAA 135667
```

RESULT 7
US-10-719-993-6774
; Sequence 6774, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6774
; LENGTH: 169567
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(169567)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-719-993-6774

Query Match 11.1%; Score 193.2; DB 18; Length 169567;
Best Local Similarity 77.6%; Pred. No. 2.2e-49;
Matches 250; Conservative 1; Mismatches 59; Indels 12; Gaps 1;

```
Qy       1418 AGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGGCC 1477
              ||||  ||  || |  |||||||| |||||||||| | || ||||||||||||||||
Db     137269 AGAACTTGCCGGGCACGGTGGCTCACGCCTGTAATCCTAGCAATTTGGGAGGCTGAGGCA 137328

Qy       1478 GGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAATATGGCAAAACCCCATC 1537
              ||| |||| | |||||||| |||||||| ||||||||||||||||||  ||||||||||
Db     137329 GGCGGATCACCTGAGGTCGGGAGTTTGAGACCAGCCTGGCCAATATGGTGAAACCCCATC 137388

Qy       1538 TTTATAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCATGCCTGT 1597
              | ||  ||||     |||||||||||| ||||||||   ||||| ||||||||     |
Db     137389 TCTACTAAAAATACAAAATTAGCCAGGAGTGGTGGCAGGTGCCTATAATCCCAGCTAT-- 137446

Qy       1598 AATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGAGGCAGAGGTTGC 1657
                    | |||||||||||||||||||||||:|||| ||||||||||||||| |
Db     137447 ----------TCGGGAGGCTGAGGCAGGAGAATCACKTGAACCCAGGAGGCAGAGGTTAC 137496

Qy       1658 AGTGAACTGAGATTGGACCACTGCACTCCAGCCTGGGCAACACTGAGCAAAACTGCCTGT 1717
              ||||| |   |||||  |||||||||||||||||||||||||  | |  |  ||||||
Db     137497 AGTGAGCCAGGATTGTGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCTGCCTCA 137556

Qy       1718 CGTGAAAAAAAAAAAAAAAAAA 1739
                |||||||||||||||||||
Db     137557 AAAAAAAAAAAAAAAAAAAAAA 137578
```

RESULT 8
US-10-027-632-250936/c
; Sequence 250936, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129

```
;  CURRENT APPLICATION NUMBER: US/10/027,632
;  CURRENT FILING DATE:  2002-04-30
;  PRIOR APPLICATION NUMBER: US 60/218,006
;  PRIOR FILING DATE: 2000-07-12
;  PRIOR APPLICATION NUMBER: US 60/198,676
;  PRIOR FILING DATE: 2000-04-20
;  PRIOR APPLICATION NUMBER: US 60/193,483
;  PRIOR FILING DATE: 2000-03-29
;  PRIOR APPLICATION NUMBER: US 60/185,218
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/167,363
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: US 60/156,358
;  PRIOR FILING DATE: 1999-09-28
;  PRIOR APPLICATION NUMBER: US 60/146,002
;  PRIOR FILING DATE: 1999-08-09
;  NUMBER OF SEQ ID NOS: 325720
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 250936
;   LENGTH: 2655
;   TYPE: DNA
;   ORGANISM: Human
US-10-027-632-250936

  Query Match             11.1%;  Score 192.6;  DB 13;  Length 2655;
  Best Local Similarity   79.4%;  Pred. No. 3.2e-50;
  Matches  258;  Conservative    0;  Mismatches   54;  Indels   13;  Gaps    2;

Qy       1416 TGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGG 1475
             ||  |||  | | || | |||||||| | |||||||||||||| || ||||||||||||||||
Db       1934 TGTTAAGAGGCTGGGCACAGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGG 1875

Qy       1476 CCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAATATGGCAAAACCCCA 1535
             | |||||||| |||| |||||||||||||| ||||| |||||||||||||| |||||||||
Db       1874 CAGGCAGATCCCTTGCGGTCAGGAGTTTGAGACCAGACTGGCCAATATGGTAAAACCCCA 1815

Qy       1536 TCTTTA-TAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCATGCC 1594
             ||| || |||||||||| |||||||||||| |||||||| |||||||||| ||
Db       1814 TCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGCATGCCTGTAGTC------- 1762

Qy       1595 TGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGAGGCAGAGGT 1654
                 |        ||  ||| ||||| |||||||||||  |||||| ||||||||||||||||
Db       1761 -----TTAGCTACTCAGGAAGCTGATGCAGGAGAATGGCTTGAACCCAGGAGGCAGAGGT 1707

Qy       1655 TGCAGTGAACTGAGATTGGACCACTGCACTCCAGCCTGGGCAACACTGAGCAAAACTGCC 1714
             |||||||| |||||||||| |||||||||| |||||||||||||||| | |   |   || |
Db       1706 TGCAGTGAGCTGAGATTGTACCACTGCACGCCAGCCTGGGCAACACAGGGAGACTTTGTC 1647

Qy       1715 TGTCGTGAAAAAAAAAAAAAAAAAA 1739
                  ||||||||||||||||||
Db       1646 CCAAAAAAAAAAAAAAAAAAAAAA 1622


RESULT 9
US-10-027-632-250937/c
; Sequence 250937, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, David G.
;  TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
;  TITLE OF INVENTION:  Polymorphisms in the Human Genome
;  FILE REFERENCE: 108827.129
;  CURRENT APPLICATION NUMBER: US/10/027,632
;  CURRENT FILING DATE:  2002-04-30
;  PRIOR APPLICATION NUMBER: US 60/218,006
;  PRIOR FILING DATE: 2000-07-12
;  PRIOR APPLICATION NUMBER: US 60/198,676
;  PRIOR FILING DATE: 2000-04-20
;  PRIOR APPLICATION NUMBER: US 60/193,483
;  PRIOR FILING DATE: 2000-03-29
;  PRIOR APPLICATION NUMBER: US 60/185,218
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/167,363
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: US 60/156,358
;  PRIOR FILING DATE: 1999-09-28
;  PRIOR APPLICATION NUMBER: US 60/146,002
;  PRIOR FILING DATE: 1999-08-09
;  NUMBER OF SEQ ID NOS: 325720
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 250937
;   LENGTH: 2655
;   TYPE: DNA
;   ORGANISM: Human
US-10-027-632-250937

  Query Match             11.1%;  Score 192.6;  DB 13;  Length 2655;
  Best Local Similarity   79.4%;  Pred. No. 3.2e-50;
  Matches  258;  Conservative    0;  Mismatches   54;  Indels   13;  Gaps    2;

Qy       1416 TGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGG 1475
             ||  |||  | | || | |||||||| | |||||||||||||| || ||||||||||||||||
Db       1934 TGTTAAGAGGCTGGGCACAGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGG 1875

Qy       1476 CCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAATATGGCAAAACCCCA 1535
             | |||||||| |||| |||||||||||||| ||||| |||||||||||||| |||||||||
Db       1874 CAGGCAGATCCCTTGCGGTCAGGAGTTTGAGACCAGACTGGCCAATATGGTAAAACCCCA 1815

Qy       1536 TCTTTA-TAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCATGCC 1594
             ||| || |||||||||| |||||||||||| |||||||| |||||||||| ||
Db       1814 TCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGCATGCCTGTAGTC------- 1762

Qy       1595 TGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGAGGCAGAGGT 1654
                 |        ||  ||| ||||| |||||||||||  |||||| ||||||||||||||||
Db       1761 -----TTAGCTACTCAGGAAGCTGATGCAGGAGAATGGCTTGAACCCAGGAGGCAGAGGT 1707

Qy       1655 TGCAGTGAACTGAGATTGGACCACTGCACTCCAGCCTGGGCAACACTGAGCAAAACTGCC 1714
             |||||||| |||||||||| |||||||||| |||||||||||||||| | |   |   || |
Db       1706 TGCAGTGAGCTGAGATTGTACCACTGCACGCCAGCCTGGGCAACACAGGGAGACTTTGTC 1647

Qy       1715 TGTCGTGAAAAAAAAAAAAAAAAAA 1739
                  ||||||||||||||||||
Db       1646 CCAAAAAAAAAAAAAAAAAAAAAA 1622


RESULT 10
US-10-027-632-250938/c
; Sequence 250938, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, David G.
;  TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
;  TITLE OF INVENTION:  Polymorphisms in the Human Genome
;  FILE REFERENCE: 108827.129
;  CURRENT APPLICATION NUMBER: US/10/027,632
;  CURRENT FILING DATE:  2002-04-30
;  PRIOR APPLICATION NUMBER: US 60/218,006
;  PRIOR FILING DATE: 2000-07-12
;  PRIOR APPLICATION NUMBER: US 60/198,676
;  PRIOR FILING DATE: 2000-04-20
;  PRIOR APPLICATION NUMBER: US 60/193,483
;  PRIOR FILING DATE: 2000-03-29
;  PRIOR APPLICATION NUMBER: US 60/185,218
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/167,363
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: US 60/156,358
;  PRIOR FILING DATE: 1999-09-28
;  PRIOR APPLICATION NUMBER: US 60/146,002
;  PRIOR FILING DATE: 1999-08-09
;  NUMBER OF SEQ ID NOS: 325720
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 250938
;   LENGTH: 2655
;   TYPE: DNA
;   ORGANISM: Human
```

US-10-027-632-250938

Query Match 11.1%; Score 192.6; DB 13; Length 2655;
Best Local Similarity 79.4%; Pred. No. 3.2e-50;
Matches 258; Conservative 0; Mismatches 54; Indels 13; Gaps 2;

```
Qy       1416 TGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGG 1475
             ||  |||  | | || | ||||||| | |||||||||||||| || ||||||||||||||||
Db       1934 TGTTAAGAGGCTGGGCACAGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGG 1875

Qy       1476 CCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAATATGGCAAAACCCCA 1535
             | ||||||||| |||| |||||||||||||| ||||| |||||||||||||| |||||||||
Db       1874 CAGGCAGATCCCTTGCGGTCAGGAGTTTGAGACCAGACTGGCCAATATGGTAAAACCCCA 1815

Qy       1536 TCTTTA-TAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCATGCC 1594
             ||| || |||||||||| |||||||||||| |||||||| |||||||||| ||
Db       1814 TCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGCATGCCTGTAGTC------- 1762

Qy       1595 TGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGAGGCAGAGGT 1654
                     |       ||  ||| ||||| |||||||||| |||||| ||||||||||||||||
Db       1761 -----TTAGCTACTCAGGAAGCTGATGCAGGAGAATGGCTTGAACCCAGGAGGCAGAGGT 1707

Qy       1655 TGCAGTGAACTGAGATTGGACCACTGCACTCCAGCCTGGGCAACACTGAGCAAAACTGCC 1714
             |||||||| ||||||||| |||||||||| |||||||||||||||| | |  |   || |
Db       1706 TGCAGTGAGCTGAGATTGTACCACTGCACGCCAGCCTGGGCAACACAGGGAGACTTTGTC 1647

Qy       1715 TGTCGTGAAAAAAAAAAAAAAAAAA 1739
                  |||||||||||||||||||
Db       1646 CCAAAAAAAAAAAAAAAAAAAAAA 1622
```

RESULT 11
US-10-027-632-250939/c
; Sequence 250939, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 250939
; LENGTH: 2655
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-250939

Query Match 11.1%; Score 192.6; DB 13; Length 2655;
Best Local Similarity 79.4%; Pred. No. 3.2e-50;
Matches 258; Conservative 0; Mismatches 54; Indels 13; Gaps 2;

```
Qy       1416 TGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGG 1475
             ||  |||  | | || | ||||||| | |||||||||||||| || ||||||||||||||||
Db       1934 TGTTAAGAGGCTGGGCACAGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGG 1875

Qy       1476 CCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAATATGGCAAAACCCCA 1535
             | ||||||||| |||| |||||||||||||| ||||| |||||||||||||| |||||||||
Db       1874 CAGGCAGATCCCTTGCGGTCAGGAGTTTGAGACCAGACTGGCCAATATGGTAAAACCCCA 1815

Qy       1536 TCTTTA-TAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCATGCC 1594
             ||| || |||||||||| |||||||||||| |||||||| |||||||||| ||
Db       1814 TCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGCATGCCTGTAGTC------- 1762

Qy       1595 TGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGAGGCAGAGGT 1654
                     |       ||  ||| ||||| |||||||||| |||||| ||||||||||||||||
Db       1761 -----TTAGCTACTCAGGAAGCTGATGCAGGAGAATGGCTTGAACCCAGGAGGCAGAGGT 1707

Qy       1655 TGCAGTGAACTGAGATTGGACCACTGCACTCCAGCCTGGGCAACACTGAGCAAAACTGCC 1714
             |||||||| ||||||||| |||||||||| |||||||||||||||| | |  |   || |
Db       1706 TGCAGTGAGCTGAGATTGTACCACTGCACGCCAGCCTGGGCAACACAGGGAGACTTTGTC 1647

Qy       1715 TGTCGTGAAAAAAAAAAAAAAAAAA 1739
                  |||||||||||||||||||
Db       1646 CCAAAAAAAAAAAAAAAAAAAAAA 1622
```

RESULT 12
US-10-027-632-250936/c
; Sequence 250936, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 250936
; LENGTH: 2655
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-250936

Query Match 11.1%; Score 192.6; DB 17; Length 2655;
Best Local Similarity 79.4%; Pred. No. 3.2e-50;
Matches 258; Conservative 0; Mismatches 54; Indels 13; Gaps 2;

```
Qy       1416 TGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGG 1475
             ||  |||  | | || | ||||||| | |||||||||||||| || ||||||||||||||||
Db       1934 TGTTAAGAGGCTGGGCACAGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGG 1875

Qy       1476 CCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAATATGGCAAAACCCCA 1535
             | ||||||||| |||| |||||||||||||| ||||| |||||||||||||| |||||||||
Db       1874 CAGGCAGATCCCTTGCGGTCAGGAGTTTGAGACCAGACTGGCCAATATGGTAAAACCCCA 1815

Qy       1536 TCTTTA-TAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCATGCC 1594
             ||| || |||||||||| |||||||||||| |||||||| |||||||||| ||
Db       1814 TCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGCATGCCTGTAGTC------- 1762

Qy       1595 TGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGAGGCAGAGGT 1654
                     |       ||  ||| ||||| |||||||||| |||||| ||||||||||||||||
Db       1761 -----TTAGCTACTCAGGAAGCTGATGCAGGAGAATGGCTTGAACCCAGGAGGCAGAGGT 1707
```

```
Qy       1655 TGCAGTGAACTGAGATTGGACCACTGCACTCCAGCCTGGGCAACACTGAGCAAAACTGCC 1714
             ||||||||| ||||||||| |||||||||| |||||||||||||||| | |   |   || |
Db       1706 TGCAGTGAGCTGAGATTGTACCACTGCACGCCAGCCTGGGCAACACAGGGAGACTTTGTC 1647

Qy       1715 TGTCGTGAAAAAAAAAAAAAAAAAA 1739
                 ||||||||||||||||||
Db       1646 CCAAAAAAAAAAAAAAAAAAAAAAA 1622


RESULT 13
US-10-027-632-250937/c
; Sequence 250937, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
;  APPLICANT: Wang, David G.
;  TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
;  TITLE OF INVENTION:  Polymorphisms in the Human Genome
;  FILE REFERENCE: 108827.129
;  CURRENT APPLICATION NUMBER: US/10/027,632
;  CURRENT FILING DATE:  2002-04-30
;  PRIOR APPLICATION NUMBER: US 60/218,006
;  PRIOR FILING DATE: 2000-07-12
;  PRIOR APPLICATION NUMBER: US 60/198,676
;  PRIOR FILING DATE: 2000-04-20
;  PRIOR APPLICATION NUMBER: US 60/193,483
;  PRIOR FILING DATE: 2000-03-29
;  PRIOR APPLICATION NUMBER: US 60/185,218
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/167,363
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: US 60/156,358
;  PRIOR FILING DATE: 1999-09-28
;  PRIOR APPLICATION NUMBER: US 60/146,002
;  PRIOR FILING DATE: 1999-08-09
;  NUMBER OF SEQ ID NOS: 325720
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 250937
;   LENGTH: 2655
;   TYPE: DNA
;   ORGANISM: Human
US-10-027-632-250937

  Query Match           11.1%;  Score 192.6;  DB 17;  Length 2655;
  Best Local Similarity   79.4%;  Pred. No. 3.2e-50;
  Matches  258;  Conservative    0;  Mismatches   54;  Indels   13;  Gaps    2;

Qy       1416 TGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGG 1475
             ||  |||  | | || | |||||||| | |||||||||||||| || ||||||||||||||||
Db       1934 TGTTAAGAGGCTGGGCACAGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGG 1875

Qy       1476 CCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAATATGGCAAAACCCCA 1535
             | |||||||| |||| |||||||||||||| ||||| |||||||||||||| |||||||||
Db       1874 CAGGCAGATCCCTTGCGGTCAGGAGTTTGAGACCAGACTGGCCAATATGGTAAAACCCCA 1815

Qy       1536 TCTTTA-TAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCATGCC 1594
             ||| || |||||||||| |||||||||||| |||||||| |||||||||| ||
Db       1814 TCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGCATGCCTGTAGTC------- 1762

Qy       1595 TGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGAGGCAGAGGT 1654
                     |       ||  ||| ||||| ||||||||||  |||||| ||||||||||||||||
Db       1761 -----TTAGCTACTCAGGAAGCTGATGCAGGAGAATGGCTTGAACCCAGGAGGCAGAGGT 1707

Qy       1655 TGCAGTGAACTGAGATTGGACCACTGCACTCCAGCCTGGGCAACACTGAGCAAAACTGCC 1714
             ||||||||| ||||||||| |||||||||| |||||||||||||||| | |   |   || |
Db       1706 TGCAGTGAGCTGAGATTGTACCACTGCACGCCAGCCTGGGCAACACAGGGAGACTTTGTC 1647

Qy       1715 TGTCGTGAAAAAAAAAAAAAAAAAA 1739
                 ||||||||||||||||||
Db       1646 CCAAAAAAAAAAAAAAAAAAAAAAA 1622


RESULT 14
US-10-027-632-250938/c
; Sequence 250938, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
;  APPLICANT: Wang, David G.
;  TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
;  TITLE OF INVENTION:  Polymorphisms in the Human Genome
;  FILE REFERENCE: 108827.129
;  CURRENT APPLICATION NUMBER: US/10/027,632
;  CURRENT FILING DATE:  2002-04-30
;  PRIOR APPLICATION NUMBER: US 60/218,006
;  PRIOR FILING DATE: 2000-07-12
;  PRIOR APPLICATION NUMBER: US 60/198,676
;  PRIOR FILING DATE: 2000-04-20
;  PRIOR APPLICATION NUMBER: US 60/193,483
;  PRIOR FILING DATE: 2000-03-29
;  PRIOR APPLICATION NUMBER: US 60/185,218
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/167,363
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: US 60/156,358
;  PRIOR FILING DATE: 1999-09-28
;  PRIOR APPLICATION NUMBER: US 60/146,002
;  PRIOR FILING DATE: 1999-08-09
;  NUMBER OF SEQ ID NOS: 325720
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 250938
;   LENGTH: 2655
;   TYPE: DNA
;   ORGANISM: Human
US-10-027-632-250938

  Query Match           11.1%;  Score 192.6;  DB 17;  Length 2655;
  Best Local Similarity   79.4%;  Pred. No. 3.2e-50;
  Matches  258;  Conservative    0;  Mismatches   54;  Indels   13;  Gaps    2;

Qy       1416 TGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGG 1475
             ||  |||  | | || | |||||||| | |||||||||||||| || ||||||||||||||||
Db       1934 TGTTAAGAGGCTGGGCACAGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGG 1875

Qy       1476 CCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAATATGGCAAAACCCCA 1535
             | |||||||| |||| |||||||||||||| ||||| |||||||||||||| |||||||||
Db       1874 CAGGCAGATCCCTTGCGGTCAGGAGTTTGAGACCAGACTGGCCAATATGGTAAAACCCCA 1815

Qy       1536 TCTTTA-TAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCATGCC 1594
             ||| || |||||||||| |||||||||||| |||||||| |||||||||| ||
Db       1814 TCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGCATGCCTGTAGTC------- 1762

Qy       1595 TGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGAGGCAGAGGT 1654
                     |       ||  ||| ||||| ||||||||||  |||||| ||||||||||||||||
Db       1761 -----TTAGCTACTCAGGAAGCTGATGCAGGAGAATGGCTTGAACCCAGGAGGCAGAGGT 1707

Qy       1655 TGCAGTGAACTGAGATTGGACCACTGCACTCCAGCCTGGGCAACACTGAGCAAAACTGCC 1714
             ||||||||| ||||||||| |||||||||| |||||||||||||||| | |   |   || |
Db       1706 TGCAGTGAGCTGAGATTGTACCACTGCACGCCAGCCTGGGCAACACAGGGAGACTTTGTC 1647

Qy       1715 TGTCGTGAAAAAAAAAAAAAAAAAA 1739
                 ||||||||||||||||||
Db       1646 CCAAAAAAAAAAAAAAAAAAAAAAA 1622


RESULT 15
US-10-027-632-250939/c
; Sequence 250939, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
;  APPLICANT: Wang, David G.
;  TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
;  TITLE OF INVENTION:  Polymorphisms in the Human Genome
;  FILE REFERENCE: 108827.129
;  CURRENT APPLICATION NUMBER: US/10/027,632
;  CURRENT FILING DATE:  2002-04-30
;  PRIOR APPLICATION NUMBER: US 60/218,006
;  PRIOR FILING DATE: 2000-07-12
```

```
;  PRIOR APPLICATION NUMBER: US 60/198,676
;  PRIOR FILING DATE: 2000-04-20
;  PRIOR APPLICATION NUMBER: US 60/193,483
;  PRIOR FILING DATE: 2000-03-29
;  PRIOR APPLICATION NUMBER: US 60/185,218
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/167,363
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: US 60/156,358
;  PRIOR FILING DATE: 1999-09-28
;  PRIOR APPLICATION NUMBER: US 60/146,002
;  PRIOR FILING DATE: 1999-08-09
;  NUMBER OF SEQ ID NOS: 325720
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 250939
;   LENGTH: 2655
;   TYPE: DNA
;   ORGANISM: Human
US-10-027-632-250939

  Query Match             11.1%;  Score 192.6;  DB 17;  Length 2655;
  Best Local Similarity   79.4%;  Pred. No. 3.2e-50;
  Matches  258;  Conservative    0;  Mismatches   54;  Indels   13;  Gaps    2;

Qy       1416 TGAGAAGGTGGTTGGTAAAGTGGCTCATGCCTGTAATCCCAACAGTTTGGGAGGCTGAGG 1475
              ||  |||  | | || | ||||||| | ||||||||||||| || ||||||||||||||
Db       1934 TGTTAAGAGGCTGGGCACAGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGG 1875

Qy       1476 CCGGCAGATCGCTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAATATGGCAAAACCCCA 1535
              | |||||||| |||| ||||||||||||| ||||| |||||||||||| |||||||||
Db       1874 CAGGCAGATCCCTTGCGGTCAGGAGTTTGAGACCAGACTGGCCAATATGGTAAAACCCCA 1815

Qy       1536 TCTTTA-TAAAAATACAGAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCATGCC 1594
              ||| || |||||||||| |||||||||||| |||||||| |||||||||| ||
Db       1814 TCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGCATGCCTGTAGTC------- 1762

Qy       1595 TGTAATCCCAGCCTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGAGGCAGAGGT 1654
                    |       ||  ||| ||||| |||||||||  |||||| ||||||||||||||
Db       1761 -----TTAGCTACTCAGGAAGCTGATGCAGGAGAATGGCTTGAACCCAGGAGGCAGAGGT 1707

Qy       1655 TGCAGTGAACTGAGATTGGACCACTGCACTCCAGCCTGGGCAACACTGAGCAAAACTGCC 1714
              |||||||| ||||||||| |||||||||| |||||||||||||||| | |  |   || |
Db       1706 TGCAGTGAGCTGAGATTGTACCACTGCACGCCAGCCTGGGCAACACAGGGAGACTTTGTC 1647

Qy       1715 TGTCGTGAAAAAAAAAAAAAAAAAA 1739
                 ||||||||||||||||||
Db       1646 CCAAAAAAAAAAAAAAAAAAAAAA 1622


Search completed: February  7, 2005, 03:35:22
Job time : 966.108 secs
```

THIS PAGE LEFT BLANK

THIS PAGE LEFT BLANK

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: February 6, 2005, 18:40:00 ; Search time 229.101 Seconds
(without alignments)
9670.472 Million cell updates/sec

Title: US-09-864-711-8
Perfect score: 1354
Sequence: 1 ggtgagcccctctgtcggcat.....atagtccagtgtttccttcc 1354

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	1354	100.0	1354	4	US-09-610-906-2	Sequence 2, Appli
	2	1213.6	89.6	1312	4	US-09-610-906-5	Sequence 5, Appli
	3	1213.6	89.6	1312	4	US-09-976-594-346	Sequence 346, App
c	4	473.8	35.0	562	4	US-09-610-906-6	Sequence 6, Appli
	5	261	19.3	274	4	US-09-610-906-4	Sequence 4, Appli
	6	251.4	18.6	620	4	US-09-610-906-7	Sequence 7, Appli
	7	233	17.2	233	4	US-09-610-906-3	Sequence 3, Appli
	8	183.2	13.5	279	4	US-09-610-906-8	Sequence 8, Appli
	9	134.4	9.9	325	4	US-09-610-906-10	Sequence 10, Appl
	10	114.2	8.4	159	4	US-09-610-906-9	Sequence 9, Appli
	11	109.4	8.1	1193	3	US-09-372-422A-23	Sequence 23, Appl
	12	107.6	7.9	1158	3	US-09-372-422A-21	Sequence 21, Appl
	13	105.4	7.8	1153	3	US-09-372-448A-5	Sequence 5, Appli
	14	100	7.4	1015	3	US-09-372-422A-31	Sequence 31, Appl
	15	99.6	7.4	1081	3	US-09-372-422A-33	Sequence 33, Appl
	16	97.8	7.2	1408	1	US-08-447-554-3	Sequence 3, Appli
	17	97.8	7.2	1408	1	US-08-448-160-3	Sequence 3, Appli
	18	94.2	7.0	1100	3	US-09-372-422A-47	Sequence 47, Appl
	19	91	6.7	1320	4	US-09-949-016-2223	Sequence 2223, Ap
	20	81.4	6.0	1352	4	US-09-949-016-1320	Sequence 1320, Ap
	21	75.2	5.6	1087	3	US-09-372-422A-29	Sequence 29, Appl
	22	74.2	5.5	96	4	US-09-610-906-11	Sequence 11, Appl
	23	72.8	5.4	1176	3	US-09-372-422A-25	Sequence 25, Appl
	24	72.8	5.4	1302	3	US-09-372-422A-27	Sequence 27, Appl
	25	72.4	5.3	1485	3	US-09-372-422A-39	Sequence 39, Appl
	26	71.6	5.3	1375	3	US-09-372-422A-37	Sequence 37, Appl
	27	70.8	5.2	882	4	US-09-949-016-2156	Sequence 2156, Ap
	28	70	5.2	1340	1	US-08-468-763-16	Sequence 16, Appl
	29	70	5.2	1340	2	US-08-393-996A-16	Sequence 16, Appl
	30	70	5.2	1662	4	US-09-949-016-63	Sequence 63, Appl
	31	70	5.2	1663	4	US-09-949-016-4600	Sequence 4600, Ap
	32	70	5.2	2735	4	US-09-949-016-2446	Sequence 2446, Ap
	33	69.2	5.1	1116	3	US-09-372-422A-41	Sequence 41, Appl
	34	67.2	5.0	938	3	US-08-654-025-1	Sequence 1, Appli
c	35	67.2	5.0	938	3	US-08-654-025-3	Sequence 3, Appli
	36	61	4.5	1442	1	US-08-468-763-18	Sequence 18, Appl
	37	61	4.5	1442	2	US-08-393-996A-18	Sequence 18, Appl
	38	59.2	4.4	1333	3	US-09-372-422A-9	Sequence 9, Appli
	39	58.6	4.3	3426	1	US-08-234-939-1	Sequence 1, Appli
	40	58.6	4.3	3426	1	US-08-558-865-1	Sequence 1, Appli
	41	58.6	4.3	3426	3	US-08-654-025-6	Sequence 6, Appli
	42	57.4	4.2	7679	4	US-09-949-016-13965	Sequence 13965, A
	43	55.4	4.1	1431	4	US-09-949-016-4277	Sequence 4277, Ap
	44	55.4	4.1	1431	4	US-09-949-016-4278	Sequence 4278, Ap
	45	50.8	3.8	1454	3	US-09-372-422A-19	Sequence 19, Appl

ALIGNMENTS

RESULT 1
US-09-610-906-2
; Sequence 2, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; CURRENT FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 2
; LENGTH: 1354
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6566066 2774542CB1
; PUBLICATION INFORMATION:
US-09-610-906-2

Query Match 100.0%; Score 1354; DB 4; Length 1354;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1354; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 GGTGAGCCCTCTGTCGGCATCTTCCTCTCCAGGCTGGCAGAGCAAGGGGGGCTGTGAATT 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GGTGAGCCCTCTGTCGGCATCTTCCTCTCCAGGCTGGCAGAGCAAGGGGGGCTGTGAATT 60

Qy         61 AATTCAAGGTTGGGGGTCGGGGCCTTCTATATCTGGACTTGCCTCCCACCCGTGTCCTCT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 AATTCAAGGTTGGGGGTCGGGGCCTTCTATATCTGGACTTGCCTCCCACCCGTGTCCTCT 120

Qy        121 GTCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCC 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCC 180

Qy        181 AGGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCA 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 AGGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCA 240

Qy        241 TGTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATT 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATT 300
```

```
Qy        301 GAGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGG 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 GAGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGG 360

Qy        361 CTCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTG 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 CTCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTG 420

Qy        421 GCAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAG 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GCAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAG 480

Qy        481 CTGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTC 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CTGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTC 540

Qy        541 TGGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCG 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TGGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCG 600

Qy        601 TTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATC 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 TTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATC 660

Qy        661 AATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGAT 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 AATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGAT 720

Qy        721 ATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCT 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 ATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCT 780

Qy        781 GCGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        781 GCGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCT 840

Qy        841 GGCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATC 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        841 GGCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATC 900

Qy        901 CTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCA 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        901 CTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCA 960

Qy        961 CCTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAG 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        961 CCTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAG 1020

Qy       1021 GAGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGA 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1021 GAGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGA 1080

Qy       1081 GGCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCT 1140
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1081 GGCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCT 1140

Qy       1141 GCCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAA 1200
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1141 GCCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAA 1200

Qy       1201 TGTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATT 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1201 TGTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATT 1260

Qy       1261 TCTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTC 1320
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1261 TCTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTC 1320

Qy       1321 TCACTTTGCAATAAATAGTCCAGTGTTTCCTTCC 1354
              |||||||||||||||||||||||||||||||||
Db       1321 TCACTTTGCAATAAATAGTCCAGTGTTTCCTTCC 1354
```

```
RESULT 2
US-09-610-906-5
; Sequence 5, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
;  APPLICANT:       Walker, Michael G.
;  APPLICANT:  Volkmuth, Wayne
;  APPLICANT:  Klinger, Tod M.
;  TITLE OF INVENTION:  AQUAPORIN-8 VARIANT
;  FILE REFERENCE:  PC-0012 CIP
;  CURRENT APPLICATION NUMBER: US/09/610,906
;  CURRENT FILING DATE:  2000-07-06
;  PRIOR APPLICATION NUMBER:       09/226,994
;  PRIOR FILING DATE:      1999-01-07
;  NUMBER OF SEQ ID NOS:      12
;  SOFTWARE:       PERL Program
; SEQ ID NO 5
;   LENGTH: 1312
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6566066 1804734CB1
;  PUBLICATION INFORMATION:
US-09-610-906-5

  Query Match             89.6%;  Score 1213.6;  DB 4;  Length 1312;
  Best Local Similarity   99.3%;  Pred. No. 0;
  Matches 1219;  Conservative    0;  Mismatches    9;  Indels    0;  Gaps    0;

Qy        122 TCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCA 181
              |||   | ||   |  ||||||||||||||||||||||||||||||||||||||||||||||||
Db         85 TCCTGATGTCTGGAGAGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCA 144

Qy        182 GGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCAT 241
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        145 GGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCAT 204

Qy        242 GTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTG 301
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        205 GTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTG 264

Qy        302 AGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGC 361
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        265 AGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGC 324

Qy        362 TCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGG 421
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        325 TCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGG 384

Qy        422 CAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGC 481
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        385 CAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGC 444

Qy        482 TGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCT 541
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        445 TGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCT 504

Qy        542 GGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGT 601
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        505 GGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGT 564

Qy        602 TGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCA 661
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        565 TGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCA 624

Qy        662 ATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATA 721
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        625 ATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATA 684

Qy        722 TCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTG 781
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        685 TCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTG 744
```

```
Qy        782 CGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTG 841
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        745 CGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTG 804

Qy        842 GCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCC 901
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        805 GCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCC 864

Qy        902 TGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCAC 961
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        865 TGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCAC 924

Qy        962 CTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGG 1021
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        925 CTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGG 984

Qy       1022 AGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAG 1081
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        985 AGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAG 1044

Qy       1082 GCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTG 1141
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1045 GCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTG 1104

Qy       1142 CCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAAT 1201
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1105 CCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAAT 1164

Qy       1202 GTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTT 1261
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1165 GTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTT 1224

Qy       1262 CTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCT 1321
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1225 CTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCT 1284

Qy       1322 CACTTTGCAATAAATAGTCCAGTGTTTC 1349
              ||||||||||||||||||||||||||||
Db       1285 CACTTTGCAATAAATAGTCCAGTGTTTC 1312
```

```
RESULT 3
US-09-976-594-346
; Sequence 346, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
;  APPLICANT: Furness, Michael
;  APPLICANT:  Buchbinder, Jenny
;  TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
;  FILE REFERENCE: PA-0041 US
;  CURRENT APPLICATION NUMBER: US/09/976,594
;  CURRENT FILING DATE:  2001-10-12
;  PRIOR APPLICATION NUMBER: 60/240,409
;  PRIOR FILING DATE: 2000-10-12
;  NUMBER OF SEQ ID NOS: 1143
;  SOFTWARE: PERL Program
; SEQ ID NO 346
;   LENGTH: 1312
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6673549 1804734CB1
US-09-976-594-346

  Query Match            89.6%;  Score 1213.6;  DB 4;  Length 1312;
  Best Local Similarity   99.3%;  Pred. No. 0;
  Matches 1219;  Conservative    0;  Mismatches    9;  Indels    0;  Gaps    0;

Qy        122 TCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCA 181
              |||   | ||   |  ||||||||||||||||||||||||||||||||||||||||||
Db         85 TCCTGATGTCTGGAGAGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCA 144

Qy        182 GGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCAT 241
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        145 GGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCAT 204

Qy        242 GTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTG 301
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        205 GTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTG 264

Qy        302 AGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGC 361
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        265 AGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGC 324

Qy        362 TCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGG 421
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        325 TCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGG 384

Qy        422 CAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGC 481
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        385 CAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGC 444

Qy        482 TGCTCGGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCT 541
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        445 TGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCT 504

Qy        542 GGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGT 601
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        505 GGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGT 564

Qy        602 TGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCA 661
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        565 TGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCA 624

Qy        662 ATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATA 721
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        625 ATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATA 684

Qy        722 TCCTGGCTGGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCCGTGCTTTTGGACCTG 781
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        685 TCCTGGCTGGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCCGTGCTTTTGGACCTG 744

Qy        782 CGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTG 841
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        745 CGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTG 804

Qy        842 GCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCC 901
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        805 GCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCC 864

Qy        902 TGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCAC 961
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        865 TGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCAC 924

Qy        962 CTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGG 1021
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        925 CTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGG 984

Qy       1022 AGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAG 1081
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        985 AGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAG 1044

Qy       1082 GCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTG 1141
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1045 GCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTG 1104

Qy       1142 CCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAAT 1201
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1105 CCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAAT 1164

Qy       1202 GTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTT 1261
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1165 GTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTT 1224
```

```
Qy       1262 CTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCT 1321
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1225 CTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCT 1284

Qy       1322 CACTTTGCAATAAATAGTCCAGTGTTTC 1349
              ||||||||||||||||||||||||||||
Db       1285 CACTTTGCAATAAATAGTCCAGTGTTTC 1312
```

RESULT 4
US-09-610-906-6/c
; Sequence 6, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; CURRENT FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 6
;   LENGTH: 562
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6566066 227165F1
;   NAME/KEY: unsure
;   LOCATION: 525, 550
;   OTHER INFORMATION: a, t, c, g, or other
; PUBLICATION INFORMATION:
US-09-610-906-6

```
  Query Match             35.0%;  Score 473.8;  DB 4;  Length 562;
  Best Local Similarity   95.4%;  Pred. No. 9.7e-118;
  Matches  521;  Conservative    0;  Mismatches   18;  Indels    7;  Gaps    3;

Qy        816 CTACTGGCTGGGCCCA--CTCCTGGCTGGCCTGCTTGTTGG---ACTGCTCATTAGGTGC 870
              ||||||||||||||||    | ||||||||||||||  | |       ||||||||||||
Db        546 CTACTGGCTGGGCCCAACTCCNTGGCTGGCCTGCTTTGTTGGAACTGCCTCATTAGGTGC 487

Qy        871 TTCATTGGA--GATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCAGAGCTCGTG 928
              |||||||||     || ||||||||||||||||||||| ||||||||| |||||||||||
Db        486 TTCATTGGAAGATGGGAAAGACCCGCCTCATCCTGAAGCCTCGGTGAAACAGAGCTCGTG 427

Qy        929 GGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGACAGGGGAGTT 988
              ||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||
Db        426 GGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTCAGGACAGGGGAGTT 367

Qy        989 CCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCACTGCTTGGG 1048
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        366 CCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCACTGCTTGGG 307

Qy       1049 CCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAATTCCTTTGTG 1108
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        306 CCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAATTCCTTTGTG 247

Qy       1109 CTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAGCAGTGCAAA 1168
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        246 CTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAGCAGTGCAAA 187

Qy       1169 CACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAGGAGGCTGTT 1228
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        186 CACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAGGAGGCTGTT 127

Qy       1229 TCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGTTGGGGGCCT 1288
              |||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||
Db        126 TCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTTCTTGATTGCTTTGTTGGGGGCCT 67
```

```
Qy       1289 GGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGTCCAGTGTTT 1348
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         66 GGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGTCCAGTGTTT 7

Qy       1349 CCTTCC 1354
              ||||||
Db          6 CCTTCC 1
```

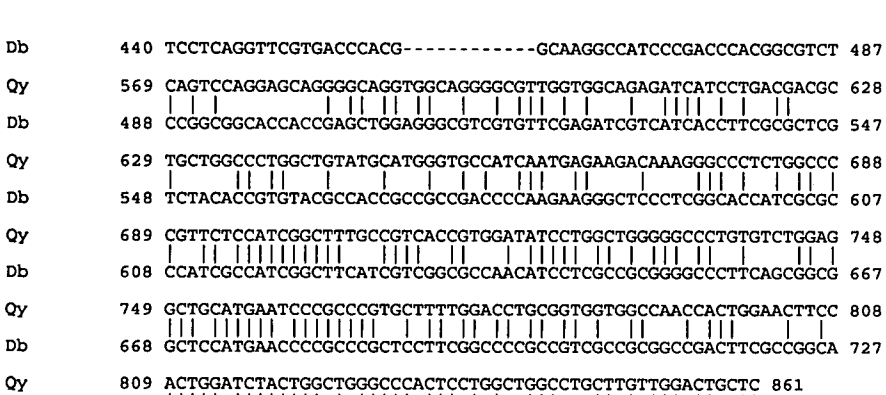
RESULT 5
US-09-610-906-4
; Sequence 4, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/09/610,906
; CURRENT FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 4
;   LENGTH: 274
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6566066 3834902H1
;   NAME/KEY: unsure
;   LOCATION: 209
;   OTHER INFORMATION: a, t, c, g, or other
; PUBLICATION INFORMATION:
US-09-610-906-4

```
  Query Match             19.3%;  Score 261;  DB 4;  Length 274;
  Best Local Similarity   99.3%;  Pred. No. 1.6e-60;
  Matches  272;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy         15 CGGCATCTTCCTCTCCAGGCTGGCAGAGCAAGGGGGGCTGTGAATTAATTCAAGGTTGGG 74
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CGGCATCTTCCTCTCCAGGCTGGCAGAGCAAGGGGGGCTGTGAATTAATTCAAGGTTGGG 60

Qy         75 GGTCGGGGCCTTCTATATCTGGACTTGCCTCCCACCCGTGTCCTCTGTCCCTTTTTCCCT 134
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GGTCGGGGCCTTCTATATCTGGACTTGCCTCCCACCCGTGTCCTCTGTCCCTTTTTCCCT 120

Qy        135 ACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGT 194
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGT 180

Qy        195 GGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACT 254
              ||||||||||||||||||||||||||| ||||||||||||||||||||||||||||||||
Db        181 GGGTGGCAGGTGGCGAGTGTCCTGGTACNAACGGTTTGTGCAGCCATGTCTGGTCGAACT 240

Qy        255 GCT-GGGCTCTGCTCTCTTCATCTTCATCGGGTG 287
              ||| ||||||||||||||||||||||||||||||
Db        241 GCTGGGGCTCTGCTCTCTTCATCTTCATCGGGTG 274
```

RESULT 6
US-09-610-906-7
; Sequence 7, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT

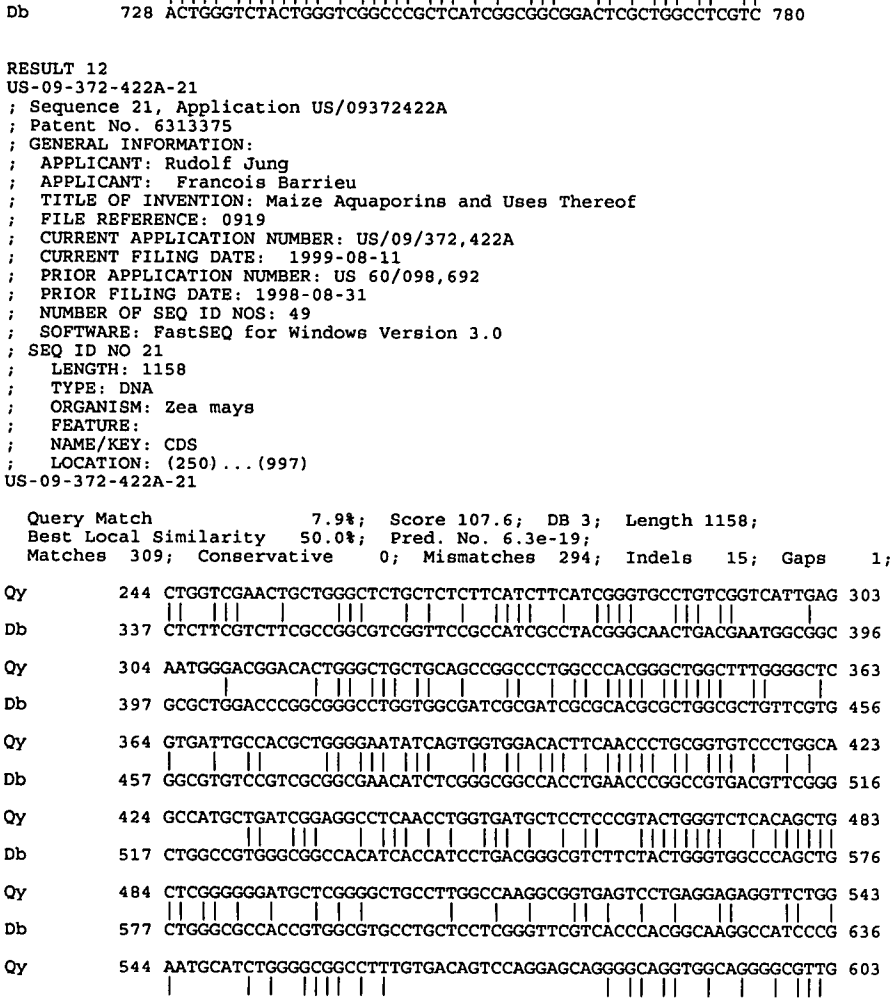
```
;  FILE REFERENCE:  PC-0012 CIP
;  CURRENT APPLICATION NUMBER: US/09/610,906
;  CURRENT FILING DATE:  2000-07-06
;  PRIOR APPLICATION NUMBER:      09/226,994
;  PRIOR FILING DATE:      1999-01-07
;  NUMBER OF SEQ ID NOS:      12
;  SOFTWARE:      PERL Program
; SEQ ID NO 7
;   LENGTH: 620
;   TYPE: DNA
;   ORGANISM: Rattus norvegicus
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6566066 701887401H1
;  PUBLICATION INFORMATION:
US-09-610-906-7

  Query Match             18.6%;  Score 251.4;  DB 4;  Length 620;
  Best Local Similarity   77.8%;  Pred. No. 8.6e-58;
  Matches  329;  Conservative    0;  Mismatches   91;  Indels    3;  Gaps    2;

Qy        580 CAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTG 639
              |||  |||||||||||  ||  ||| || |||||||  |  |||||| |||| |||   ||
Db         57 CAGCAGCAGGTGGCAGAAGCCCTGGGGGTAGAGATCGTTATGACGATGCTGTTGGTATTG 116

Qy        640 GCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATC 699
              ||||||||  |||||||| ||||||||||||||| ||| || || ||||| ||||||||
Db        117 GCTGTATGTATGGGTGCCGTCAATGAGAAGACAATGGGTCCCCTAGCCCCATTCTCCATT 176

Qy        700 GGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAAT 759
              || ||  | ||||  |||||||||||||| || ||     | ||||||| |||||||||
Db        177 GGTTTCTCTGTCATTGTGGATATCCTGGCAGGTGGTGGGATCTCTGGAGCCTGCATGAAC 236

Qy        760 CCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTAC 819
              || || ||||| |||||||||| ||| ||||    | ||||| ||||||| |||||||||
Db        237 CCTGCTCGTGCCTTTGGACCTGCTGTGATGGCTGGCTACTGGGACTTCCATTGGATCTAC 296

Qy        820 TGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGA 879
              ||||||||||||||||||||||||||  |||| ||||||||||||||  |||||||||
Db        297 TGGCTGGGCCCACTCCTGGCTGGCCTCTTTGTGGGACTGCTCATTAGGCTCTTCATTGGA 356

Qy        880 GATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCT 939
              |||| ||| |||||||| || || ||| |  |||||||  |  |||  |  || ||  ||
Db        357 GATGAGAAAACCCGCCTGATTCTAAAGTCGAGGTGAAGAACTGCTGGCAGCATCCCCACT 416

Qy        940 GCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCC 999
              |  || || |||||||||||     |||||      ||||||||||  | ||||   |||| |
Db        417 G--CCTGGAGTCCTCAGCT-GTTTGTCCTGAGTTGAGGACAGGACAATTCCATTATTTTC 473

Qy       1000 TGC 1002
              |||
Db        474 TGC 476


RESULT 7
US-09-610-906-3
; Sequence 3, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
;  APPLICANT:      Walker, Michael G.
;  APPLICANT:  Volkmuth, Wayne
;  APPLICANT:  Klinger, Tod M.
;  TITLE OF INVENTION:  AQUAPORIN-8 VARIANT
;  FILE REFERENCE:  PC-0012 CIP
;  CURRENT APPLICATION NUMBER: US/09/610,906
;  CURRENT FILING DATE:  2000-07-06
;  PRIOR APPLICATION NUMBER:      09/226,994
;  PRIOR FILING DATE:      1999-01-07
;  NUMBER OF SEQ ID NOS:      12
;  SOFTWARE:      PERL Program
; SEQ ID NO 3
;   LENGTH: 233
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6566066 2774542H1
;  PUBLICATION INFORMATION:
US-09-610-906-3

  Query Match             17.2%;  Score 233;  DB 4;  Length 233;
  Best Local Similarity   100.0%;  Pred. No. 5.1e-53;
  Matches  233;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GGTGAGCCCTCTGTCGGCATCTTCCTCTCCAGGCTGGCAGAGCAAGGGGGGCTGTGAATT 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GGTGAGCCCTCTGTCGGCATCTTCCTCTCCAGGCTGGCAGAGCAAGGGGGGCTGTGAATT 60

Qy         61 AATTCAAGGTTGGGGGTCGGGGCCTTCTATATCTGGACTTGCCTCCCACCCGTGTCCTCT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 AATTCAAGGTTGGGGGTCGGGGCCTTCTATATCTGGACTTGCCTCCCACCCGTGTCCTCT 120

Qy        121 GTCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCC 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCC 180

Qy        181 AGGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGT 233
              |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 AGGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGT 233


RESULT 8
US-09-610-906-8
; Sequence 8, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
;  APPLICANT:      Walker, Michael G.
;  APPLICANT:  Volkmuth, Wayne
;  APPLICANT:  Klinger, Tod M.
;  TITLE OF INVENTION:  AQUAPORIN-8 VARIANT
;  FILE REFERENCE:  PC-0012 CIP
;  CURRENT APPLICATION NUMBER: US/09/610,906
;  CURRENT FILING DATE:  2000-07-06
;  PRIOR APPLICATION NUMBER:      09/226,994
;  PRIOR FILING DATE:      1999-01-07
;  NUMBER OF SEQ ID NOS:      12
;  SOFTWARE:      PERL Program
; SEQ ID NO 8
;   LENGTH: 279
;   TYPE: DNA
;   ORGANISM: Rattus norvegicus
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6566066 701624411H1
;  PUBLICATION INFORMATION:
US-09-610-906-8

  Query Match             13.5%;  Score 183.2;  DB 4;  Length 279;
  Best Local Similarity   79.0%;  Pred. No. 1.5e-39;
  Matches  218;  Conservative    0;  Mismatches   58;  Indels    0;  Gaps    0;

Qy        529 GAGGAGAGGTTCTGGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAG 588
              |||||  |||||||||||||| |||||||| |||||||  | |||||||||||||| ||||
Db          4 GAGGAAAGGTTCTGGAATGCGTCTGGGGCAGCCTTTGCCATAGTCCAGGAGCAGGAGCAG 63

Qy        589 GTGGCAGGGGCGTTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGC 648
              |||||||  ||  ||| || |||||||  |  ||||||  |||| |||   ||||||| ||
Db         64 GTGGCAGAAGCCCTGGGGGTAGAGATCGTTATGACGATGCTGTTGGTATTGGCTGTGTGT 123

Qy        649 ATGGGTGCCATCAATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCC 708
              |||||||| ||||||||||||| | ||| || || ||||| |||||||| || ||  |
Db        124 ATGGGTGCCGTCAATGAGAAGACCATGGGTCCCCTAGCCCCATTCTCCATTGGTTTCTCT 183

Qy        709 GTCACCGTGGATATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGT 768
              ||||  ||||||||||||||  | ||     | |||||||  |||||||| || || |||
Db        184 GTCATTGTGGATATCCTGGCAAGTGGTGGGATCTCTGGAGCCTGCATGAACCCTGCTCGT 243
```

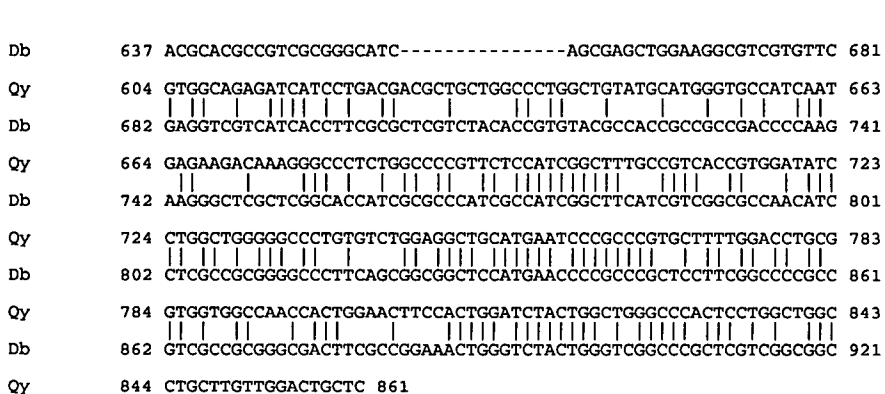
```
Qy        769 GCTTTTGGACCTGCGGTGGTGGCCAACCACTGGAAC 804
              || |||||||||||| ||| ||||   | ||||| ||
Db        244 GCCTTTGGACCTGCTGTGATGGCTGGCTACTGGGAC 279


RESULT 9
US-09-610-906-10
; Sequence 10, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
;  APPLICANT:      Walker, Michael G.
;  APPLICANT:  Volkmuth, Wayne
;  APPLICANT:  Klinger, Tod M.
;  TITLE OF INVENTION:  AQUAPORIN-8 VARIANT
;  FILE REFERENCE:  PC-0012 CIP
;  CURRENT APPLICATION NUMBER: US/09/610,906
;  CURRENT FILING DATE:  2000-07-06
;  PRIOR APPLICATION NUMBER:      09/226,994
;  PRIOR FILING DATE:      1999-01-07
;  NUMBER OF SEQ ID NOS:      12
;  SOFTWARE:      PERL Program
; SEQ ID NO 10
;   LENGTH: 325
;   TYPE: DNA
;   ORGANISM: Rattus norvegicus
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6566066 701652485H1
;  PUBLICATION INFORMATION:
US-09-610-906-10

  Query Match             9.9%;  Score 134.4;  DB 4;  Length 325;
  Best Local Similarity   72.0%;  Pred. No. 2.2e-26;
  Matches  190;  Conservative    0;  Mismatches   71;  Indels    3;  Gaps    1;

Qy        137 GGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGG 196
              || |||   | ||||||      ||  |  |  |  |||||  | |||| | | | |||
Db         62 GGGAGACGCCGATGTGTAGTATGGACCTACGTGAGATCAAGGGGAAGGAGACCAACATGG 121

Qy        197 GTGGCAGGTGGC---GAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAAC 253
              || ||| |  |   |  ||||||||||| || | ||   | || || ||| |||| ||||
Db        122 CTGACAGTTACCATGGCATGTCCTGGTATGAGCAGTACATACAACCGTGTGTGGTGGAAC 181

Qy        254 TGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGG 313
              | ||||||| |||||||||||||||||| |||||| || |||||||| |||||  |  |
Db        182 TTTTGGGCTCCGCTCTCTTCATCTTCATTGGGTGTCTATCGGTCATCGAGAACAGTCCAA 241

Qy        314 ACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCA 373
              | |||||||| |||||||| |||||||| || |||||||| ||||||||| | ||||| |
Db        242 ATACTGGGCTCCTGCAGCCTGCCCTGGCTCATGGGCTGGCCTTGGGGCTCATCATTGCTA 301

Qy        374 CGCTGGGGAATATCAGTGGTGGAC 397
              |  ||||||| ||||| |||||||
Db        302 CCTTGGGGAACATCAGCGGTGGAC 325


RESULT 10
US-09-610-906-9
; Sequence 9, Application US/09610906
; Patent No. 6566066
; GENERAL INFORMATION:
;  APPLICANT:      Walker, Michael G.
;  APPLICANT:  Volkmuth, Wayne
;  APPLICANT:  Klinger, Tod M.
;  TITLE OF INVENTION:  AQUAPORIN-8 VARIANT
;  FILE REFERENCE:  PC-0012 CIP
;  CURRENT APPLICATION NUMBER: US/09/610,906
;  CURRENT FILING DATE:  2000-07-06
;  PRIOR APPLICATION NUMBER:      09/226,994
;  PRIOR FILING DATE:      1999-01-07
;  NUMBER OF SEQ ID NOS:      12
;  SOFTWARE:      PERL Program
; SEQ ID NO 9
;   LENGTH: 159
;   TYPE: DNA
;   ORGANISM: Rattus norvegicus
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6566066 701336587H1
;  PUBLICATION INFORMATION:
US-09-610-906-9

  Query Match             8.4%;  Score 114.2;  DB 4;  Length 159;
  Best Local Similarity   82.4%;  Pred. No. 4.5e-21;
  Matches  131;  Conservative    0;  Mismatches   28;  Indels    0;  Gaps    0;

Qy        495 GCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGG 554
              | |||| |||||| |||| |||| ||||||||| ||||| ||||||||||||||| |||||
Db          1 GATCGGAGCTGCCCTGGCTAAGGTGGTGAGTCCAGAGGAAAGGTTCTGGAATGCGTCTGG 60

Qy        555 GGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGAT 614
              ||| |||||||  | |||||||||||||| ||||||||||  ||  ||| || ||||||
Db         61 GGCAGCCTTTGCCATAGTCCAGGAGCAGGAGCAGGTGGCAGAAGCCCTGGGGGTAGAGAT 120

Qy        615 CATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGG 653
              | |  |||||| |||| |||  |||||||||| |||||
Db        121 CGTTATGACGATGCTGTTGGTATTGGCTGTATGTATGGG 159


RESULT 11
US-09-372-422A-23
; Sequence 23, Application US/09372422A
; Patent No. 6313375
; GENERAL INFORMATION:
;  APPLICANT: Rudolf Jung
;  APPLICANT:  Francois Barrieu
;  TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
;  FILE REFERENCE: 0919
;  CURRENT APPLICATION NUMBER: US/09/372,422A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: US 60/098,692
;  PRIOR FILING DATE: 1998-08-31
;  NUMBER OF SEQ ID NOS: 49
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 23
;   LENGTH: 1193
;   TYPE: DNA
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (88)...(838)
US-09-372-422A-23

  Query Match             8.1%;  Score 109.4;  DB 3;  Length 1193;
  Best Local Similarity   50.6%;  Pred. No. 2.1e-19;
  Matches  300;  Conservative    0;  Mismatches  281;  Indels   12;  Gaps    1;

Qy        269 TCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTGGGCTGCTGC 328
              ||  ||||  | |||||   ||| ||        |          | || ||| ||
Db        200 TCCGCATCGCCTTCGGGCAACTGACGAATGGCGGCGCGCTGGACCCTGCGGGACTGGTGG 259

Qy        329 AGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGGGGAATATCA 388
              |   ||  |||| |||| ||||||  |    | |   |  ||  |   | ||| | |
Db        260 CGATCGCGGTGGCGCACGCGCTGGCCCTCTTCGTGGGCGTCTCCGTGGCCGCGAACACCT 319

Qy        389 GTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAGGCCTCAACC 448
              || || ||| | ||||| || ||| |  | |          ||  |||   | ||| |
Db        320 CCGGCGGCCACCTGAACCCCGCCGTGACGTTCGGCCTGGCCGTGGGCGGCCACATCACCG 379

Qy        449 TGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCGGGGCTGCCT 508
              | | |    ||||   |||||||| | ||||||||| || | |    | | |
Db        380 TCCTCACCGGCCTCTTCTACTGGGTGGCCCAGCTGCTGGGCGCGTCCGTGGCGTGCCTGC 439

Qy        509 TGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGGCCTTTGTGA 568
              |   || |  ||||  | |             | || ||      | |   |   ||
```



RESULT 12
US-09-372-422A-21
; Sequence 21, Application US/09372422A
; Patent No. 6313375
; GENERAL INFORMATION:
; APPLICANT: Rudolf Jung
; APPLICANT: Francois Barrieu
; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
; FILE REFERENCE: 0919
; CURRENT APPLICATION NUMBER: US/09/372,422A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: US 60/098,692
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 1158
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (250)...(997)
US-09-372-422A-21

Query Match 7.9%; Score 107.6; DB 3; Length 1158;
Best Local Similarity 50.0%; Pred. No. 6.3e-19;
Matches 309; Conservative 0; Mismatches 294; Indels 15; Gaps 1;





RESULT 13
US-09-372-448A-5
; Sequence 5, Application US/09372448A
; Patent No. 6313376
; GENERAL INFORMATION:
; APPLICANT: Rudolf Jung
; APPLICANT: Francois Chaumont
; APPLICANT: Maarten Chrispeels
; TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
; FILE REFERENCE: 1172
; CURRENT APPLICATION NUMBER: US/09/372,448A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: US 60/096,627
; PRIOR FILING DATE: 1998-08-14
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 1153
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (116)...(863)
US-09-372-448A-5

Query Match 7.8%; Score 105.4; DB 3; Length 1153;
Best Local Similarity 51.4%; Pred. No. 2.5e-18;
Matches 303; Conservative 0; Mismatches 271; Indels 15; Gaps 2;

```
Db        526 C---GTGTCGGTGTGGGAGGCGCTGGTGCTGGAGATCGTGATGACCTTCGGGCTGGTGTA 582

Qy        633 GGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCCCTCTGGCCCCGTT 692

Db        583 CACGGTGTACGCGACGGCGGTGGACCCGAAGAAGGGCAGCCTGGGCACCATCGCCCCCAT 642

Qy        693 CTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTG 752

Db        643 TGCCATCGGCTTCATCGTGGGGGCCAACATCCTGGTGGGCGGCGCCTTCGACGGCGCGTC 702

Qy        753 CATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACTGGAACTTCCACTG 812

Db        703 CATGAACCCCGCCGTGTCCTTCGGCCCCGCCCTCGTCAGCTGGGAGTGGGGCTACCAGTG 762

Qy        813 GATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGCTC 861

Db        763 GGTGTACTGGGTCGGCCCCCTCATCGGCGGCGGCCTCGCCGGCGTCATC 811


RESULT 14
US-09-372-422A-31
; Sequence 31, Application US/09372422A
; Patent No. 6313375
; GENERAL INFORMATION:
;  APPLICANT: Rudolf Jung
;  APPLICANT:  Francois Barrieu
;  TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
;  FILE REFERENCE: 0919
;  CURRENT APPLICATION NUMBER: US/09/372,422A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: US 60/098,692
;  PRIOR FILING DATE: 1998-08-31
;  NUMBER OF SEQ ID NOS: 49
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 31
;   LENGTH: 1015
;   TYPE: DNA
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (77)...(863)
US-09-372-422A-31

  Query Match             7.4%;  Score 100;  DB 3;  Length 1015;
  Best Local Similarity   51.0%;  Pred. No. 6.7e-17;
  Matches  294;  Conservative    0;  Mismatches  270;  Indels   12;  Gaps    2;

Qy        301 GAGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGG 360

Db        239 GACATGAGCACGGCGGGCGGCCTGGTGGCTGTGGCGCTGGCGCACGCGCTGGCCCTGGCC 298

Qy        361 CTCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTG 420

Db        299 GTGGCCGTGGCAGTGGCCGTCAACATCTCGGGCGGGCACGTGAACCCGGCGGTCACCTTC 358

Qy        421 GCAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAG 480

Db        359 GGCGCGCTCGTCGGCGGCCGCGTCTCCCTCGTCCGCGCGGTCTTGTACTGGGTCGCGCAG 418

Qy        481 CTGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTC 540

Db        419 CTGCTGGG---------CGCCGTCGCCGCCACGCTGCTCCTGCGGCTCGCCACGGGGGGC 469

Qy        541 TGGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCG 600

Db        470 ATGCGGCCGCCGGGGTTCGCGCTCGCGTCCGGGGTCGGGGACTGGCA---CGCCGTGCTG 526

Qy        601 TTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATC 660

Db        527 CTGGAGGCCGTCATGACGTTCGGCCTCATGTACGCCTACTACGCCACGGTGATCGACCCG 586

Qy        661 AATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGAT 720

Db        587 AAGCGGGGGCACGTGGGCACCATCGCGCCGCTGGCCGTGGGCTTCCTGCTCGGCGCCAAC 646

Qy        721 ATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCT 780

Db        647 GTGCTGGCGGGAGGGCCCTTCGACGGCGCAGGGATGAACCCGGCGCGGGTCTTCGGCCCG 706

Qy        781 GCGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCT 840

Db        707 GCGCTCGTCGGGTGGCGGTGGAGGCACCACTGGGTGTACTGGCTGGGCCCTTTCCTCGGC 766

Qy        841 GGCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATT 876

Db        767 GCCGGGCTTGCAGGGCTGGTGTACGAGTACCTGGTT 802


RESULT 15
US-09-372-422A-33
; Sequence 33, Application US/09372422A
; Patent No. 6313375
; GENERAL INFORMATION:
;  APPLICANT: Rudolf Jung
;  APPLICANT:  Francois Barrieu
;  TITLE OF INVENTION: Maize Aquaporins and Uses Thereof
;  FILE REFERENCE: 0919
;  CURRENT APPLICATION NUMBER: US/09/372,422A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: US 60/098,692
;  PRIOR FILING DATE: 1998-08-31
;  NUMBER OF SEQ ID NOS: 49
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 33
;   LENGTH: 1081
;   TYPE: DNA
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (37)...(799)
US-09-372-422A-33

  Query Match             7.4%;  Score 99.6;  DB 3;  Length 1081;
  Best Local Similarity   49.8%;  Pred. No. 8.8e-17;
  Matches  289;  Conservative    0;  Mismatches  279;  Indels   12;  Gaps    1;

Qy        259 GGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACT 318

Db        145 GGCTCAGGATCGGGGATGGCCTTCAGTAAGCTCACGGACGGTGGCGCCGCCACTCCTGCC 204

Qy        319 GGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTG 378

Db        205 GGCCTCATCGCCGCGTCTCTGGCGCACGCCCTCGCCCTCTTCGTGGCCGTCTCCGTGGGT 264

Qy        379 GGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGA 438

Db        265 GCCAACATCTCCGGCGGCCACGTGAACCCTGCCGTGACCTTCGGCGCCTTTGTGGGCGGC 324

Qy        439 GGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTC 498

Db        325 AACATCAGCCTCCTCAAGGCCCTGGTCTACTGGGTGGCCCAGCTCCTGGGCTCCGTCGTC 384

Qy        499 GGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCG 558

Db        385 GCCTGCCTCCTCCTCAAGAT-----------CGCCACGGGCGGCGCGGCCCTTGGCGCC 432

Qy        559 GCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATC 618

Db        433 TTCTCGCTGTCGGCGGGCGTCGGCGCCATGAACGCCGTGGTGCTGGAGATGGTCATGACC 492

Qy        619 CTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGC 678

Db        493 TTCGGCCTCGTGTACACGGTGTACGCCACGGCCGTGGACCCCAAGAAGGGCGACCTCGGC 552

Qy        679 CCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCT 738
```

```
                 | || ||  || ||||||||||   ||||  ||   | |||||||| ||||||
Db        553 GTCATCGCGCCCATCGCCATCGGCTTCATCGTCGGCGCCAACATCCTGGCGGGGGGCGCC 612

Qy        739 GTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCAC 798
              |    || | || |||||| ||||||    | || || || || || ||  ||  |  |
Db        613 TTCGACGGCGCCTCCATGAACCCCGCCGTCTCCTTCGGCCCGGCCGTCGTCACCGGCGTC 672

Qy        799 TGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGG 838
              ||| |   ||||||| | |||||| | |||||||||  ||
Db        673 TGGGAGAACCACTGGGTGTACTGGGTCGGCCCACTCGCGG 712
```

Search completed: February 6, 2005, 20:59:08
Job time : 232.101 secs

THIS PAGE LEFT BLANK

THIS PAGE LEFT BLANK

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: February 6, 2005, 20:39:38 ; Search time 748.327 Seconds
(without alignments)
10414.270 Million cell updates/sec

Title: US-09-864-711-8
Perfect score: 1354
Sequence: 1 ggtgagccctctgtcggcat.....atagtccagtgtttccttcc 1354

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4313806 seqs, 2877871033 residues

Total number of hits satisfying chosen parameters: 8627612

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
19: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
20: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
21: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1354	100.0	1354	9	US-09-864-711-8	Sequence 8, Appli
2	1354	100.0	1354	16	US-10-396-943-2	Sequence 2, Appli
3	1213.6	89.6	1312	9	US-09-981-353-62	Sequence 62, Appl
4	1213.6	89.6	1312	16	US-10-396-943-5	Sequence 5, Appli
5	1213.4	89.6	1410	9	US-09-925-299-67	Sequence 67, Appl
6	1213.4	89.6	1410	10	US-09-925-299-67	Sequence 67, Appl
7	1213.4	89.6	1410	14	US-10-023-896-40	Sequence 40, Appl
8	1213.4	89.6	1410	15	US-10-106-698-245	Sequence 245, App
9	1210.2	89.4	1314	14	US-10-216-408-16	Sequence 16, Appl
10	1203.4	88.9	1324	14	US-10-158-646-49	Sequence 49, Appl
11	1202	88.8	1388	14	US-10-023-896-11	Sequence 11, Appl
12	1202	88.8	1712	15	US-10-106-698-1986	Sequence 1986, Ap
13	1200.4	88.7	1309	17	US-10-295-027-459	Sequence 459, App
c 14	473.8	35.0	562	16	US-10-396-943-6	Sequence 6, Appli
15	315.2	23.3	321	10	US-09-803-719-2329	Sequence 2329, Ap
16	312.8	23.1	317	10	US-09-803-719-2269	Sequence 2269, Ap
17	310.6	22.9	318	10	US-09-803-719-2361	Sequence 2361, Ap
18	305.2	22.5	321	10	US-09-803-719-2362	Sequence 2362, Ap
19	280.8	20.7	314	10	US-09-803-719-2328	Sequence 2328, Ap
20	277.4	20.5	281	14	US-10-216-408-9	Sequence 9, Appli
21	271	20.0	282	14	US-10-216-408-12	Sequence 12, Appl
22	266	19.6	269	14	US-10-216-408-7	Sequence 7, Appli
23	261	19.3	274	16	US-10-396-943-4	Sequence 4, Appli
24	257	19.0	257	14	US-10-216-408-4	Sequence 4, Appli
25	255.4	18.9	257	14	US-10-216-408-11	Sequence 11, Appl
26	251.4	18.6	620	16	US-10-396-943-7	Sequence 7, Appli
27	244	18.0	244	14	US-10-216-408-3	Sequence 3, Appli
28	244	18.0	244	14	US-10-216-408-6	Sequence 6, Appli
29	243.8	18.0	279	14	US-10-216-408-14	Sequence 14, Appl
30	233	17.2	233	16	US-10-396-943-3	Sequence 3, Appli
31	230.8	17.0	256	14	US-10-216-408-10	Sequence 10, Appl
32	228.4	16.9	231	14	US-10-216-408-13	Sequence 13, Appl
33	224	16.5	224	14	US-10-216-408-5	Sequence 5, Appli
34	215.4	15.9	220	14	US-10-216-408-15	Sequence 15, Appl
35	199.4	14.7	201	14	US-10-216-408-8	Sequence 8, Appli
36	183.2	13.5	279	16	US-10-396-943-8	Sequence 8, Appli
37	134.4	9.9	325	16	US-10-396-943-10	Sequence 10, Appl
38	123	9.1	222	14	US-10-216-408-2	Sequence 2, Appli
39	117.8	8.7	1067	17	US-10-425-114-26019	Sequence 26019, A
40	117.8	8.7	1067	18	US-10-425-115-46730	Sequence 46730, A
41	117.8	8.7	1404	18	US-10-437-963-98229	Sequence 98229, A
42	116.2	8.6	1185	18	US-10-767-701-15462	Sequence 15462, A
43	115	8.5	800	18	US-10-767-701-15393	Sequence 15393, A
44	114.2	8.4	159	16	US-10-396-943-9	Sequence 9, Appli
45	112	8.3	1014	17	US-10-425-114-1471	Sequence 1471, Ap

ALIGNMENTS

RESULT 1
US-09-864-711-8
; Sequence 8, Application US/09864711
; Patent No. US20020077309A1
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Klingler, Tod M.
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS
; FILE REFERENCE: PB-0008-1 CIP
; CURRENT APPLICATION NUMBER: US/09/864,711
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PERL Program
; SEQ ID NO 8
; LENGTH: 1354
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: 2774542CB1
US-09-864-711-8

Query Match 100.0%; Score 1354; DB 9; Length 1354;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1354; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 GGTGAGCCCTCTGTCGGCATCTTCCTCTCCAGGCTGGCAGAGCAAGGGGGGCTGTGAATT 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GGTGAGCCCTCTGTCGGCATCTTCCTCTCCAGGCTGGCAGAGCAAGGGGGGCTGTGAATT 60

Qy         61 AATTCAAGGTTGGGGGTCGGGGCCTTCTATATCTGGACTTGCCTCCCACCCGTGTCCTCT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 AATTCAAGGTTGGGGGTCGGGGCCTTCTATATCTGGACTTGCCTCCCACCCGTGTCCTCT 120
```

```
Qy       121 GTCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCC 180
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       121 GTCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCC 180

Qy       181 AGGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCA 240
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       181 AGGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCA 240

Qy       241 TGTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATT 300
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       241 TGTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATT 300

Qy       301 GAGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGG 360
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       301 GAGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGG 360

Qy       361 CTCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTG 420
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       361 CTCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTG 420

Qy       421 GCAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAG 480
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       421 GCAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAG 480

Qy       481 CTGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTC 540
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       481 CTGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTC 540

Qy       541 TGGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCG 600
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       541 TGGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCG 600

Qy       601 TTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATC 660
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       601 TTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATC 660

Qy       661 AATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGAT 720
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       661 AATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGAT 720

Qy       721 ATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCT 780
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       721 ATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCT 780

Qy       781 GCGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCT 840
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       781 GCGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCT 840

Qy       841 GGCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATC 900
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       841 GGCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATC 900

Qy       901 CTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCA 960
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       901 CTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCA 960

Qy       961 CCTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAG 1020
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       961 CCTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAG 1020

Qy      1021 GAGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGA 1080
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1021 GAGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGA 1080

Qy      1081 GGCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCT 1140
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1081 GGCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCT 1140

Qy      1141 GCCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAA 1200
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1141 GCCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAA 1200

Qy      1201 TGTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATT 1260
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1201 TGTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATT 1260

Qy      1261 TCTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTC 1320
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1261 TCTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTC 1320

Qy      1321 TCACTTTGCAATAAATAGTCCAGTGTTTCCTTCC 1354
            |||||||||||||||||||||||||||||||||
Db      1321 TCACTTTGCAATAAATAGTCCAGTGTTTCCTTCC 1354
```

RESULT 2
US-10-396-943-2
; Sequence 2, Application US/10396943
; Publication No. US20030158085A1
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Klinger, Tod M.
; TITLE OF INVENTION: AQUAPORIN-8 VARIANT
; FILE REFERENCE: PC-0012 CIP
; CURRENT APPLICATION NUMBER: US/10/396,943
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/610,906
; PRIOR FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 09/226,994
; PRIOR FILING DATE: 1999-01-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 2
; LENGTH: 1354
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030158085A1 2774542CB1
; PUBLICATION INFORMATION:
US-10-396-943-2

Query Match 100.0%; Score 1354; DB 16; Length 1354;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1354; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy         1 GGTGAGCCCTCTGTCGGCATCTTCCTCTCCAGGCTGGCAGAGCAAGGGGGGCTGTGAATT 60
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         1 GGTGAGCCCTCTGTCGGCATCTTCCTCTCCAGGCTGGCAGAGCAAGGGGGGCTGTGAATT 60

Qy        61 AATTCAAGGTTGGGGGTCGGGGCCTTCTATATCTGGACTTGCCTCCCACCCGTGTCCTCT 120
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        61 AATTCAAGGTTGGGGGTCGGGGCCTTCTATATCTGGACTTGCCTCCCACCCGTGTCCTCT 120

Qy       121 GTCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCC 180
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       121 GTCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCC 180

Qy       181 AGGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCA 240
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       181 AGGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCA 240

Qy       241 TGTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATT 300
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       241 TGTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATT 300

Qy       301 GAGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGG 360
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       301 GAGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGG 360

Qy       361 CTCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTG 420
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       361 CTCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTG 420

Qy       421 GCAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAG 480
```

```
Db        421 GCAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAG 480

Qy        481 CTGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTC 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CTGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTC 540

Qy        541 TGGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCG 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TGGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCG 600

Qy        601 TTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATC 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 TTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATC 660

Qy        661 AATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGAT 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 AATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGAT 720

Qy        721 ATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCT 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 ATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCT 780

Qy        781 GCGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        781 GCGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCT 840

Qy        841 GGCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATC 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        841 GGCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATC 900

Qy        901 CTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCA 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        901 CTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCA 960

Qy        961 CCTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAG 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        961 CCTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAG 1020

Qy       1021 GAGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGA 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1021 GAGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGA 1080

Qy       1081 GGCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCT 1140
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1081 GGCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCT 1140

Qy       1141 GCCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAA 1200
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1141 GCCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAA 1200

Qy       1201 TGTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATT 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1201 TGTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATT 1260

Qy       1261 TCTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTC 1320
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1261 TCTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTC 1320

Qy       1321 TCACTTTGCAATAAATAGTCCAGTGTTTCCTTCC 1354
              |||||||||||||||||||||||||||||||||
Db       1321 TCACTTTGCAATAAATAGTCCAGTGTTTCCTTCC 1354


RESULT 3
US-09-981-353-62
; Sequence 62, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
;  APPLICANT: Lasek, Amy W.
;  APPLICANT:  Jones, David A.
;  TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
;  FILE REFERENCE: PA-0038 US
;  CURRENT APPLICATION NUMBER: US/09/981,353
;  CURRENT FILING DATE:  2001-10-11
;  NUMBER OF SEQ ID NOS: 194
;  SOFTWARE: PERL Program
; SEQ ID NO 62
;   LENGTH: 1312
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. US20020160382A1 1804734CB1
US-09-981-353-62

  Query Match            89.6%;  Score 1213.6;  DB 9;  Length 1312;
  Best Local Similarity  99.3%;  Pred. No. 0;
  Matches 1219;  Conservative    0;  Mismatches    9;  Indels    0;  Gaps    0;

Qy        122 TCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCA 181
              |||   | ||   | ||||||||||||||||||||||||||||||||||||||||||||
Db         85 TCCTGATGTCTGGAGAGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCA 144

Qy        182 GGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCAT 241
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        145 GGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCAT 204

Qy        242 GTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTG 301
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        205 GTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTG 264

Qy        302 AGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGC 361
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        265 AGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGC 324

Qy        362 TCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGG 421
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        325 TCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGG 384

Qy        422 CAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGC 481
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        385 CAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGC 444

Qy        482 TGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCT 541
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        445 TGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCT 504

Qy        542 GGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGT 601
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        505 GGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGT 564

Qy        602 TGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCA 661
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        565 TGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCA 624

Qy        662 ATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATA 721
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        625 ATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATA 684

Qy        722 TCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTG 781
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        685 TCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTG 744

Qy        782 CGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTG 841
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        745 CGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTG 804

Qy        842 GCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCC 901
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        805 GCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCC 864

Qy        902 TGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCAC 961
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        865 TGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCAC 924
```

```
Qy        962 CTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGG 1021
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        925 CTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGG 984

Qy       1022 AGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAG 1081
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        985 AGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAG 1044

Qy       1082 GCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTG 1141
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1045 GCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTG 1104

Qy       1142 CCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAAT 1201
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1105 CCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAAT 1164

Qy       1202 GTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTT 1261
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1165 GTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTT 1224

Qy       1262 CTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCT 1321
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1225 CTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCT 1284

Qy       1322 CACTTTGCAATAAATAGTCCAGTGTTTC 1349
              |||||||||||||||||||||||||||||
Db       1285 CACTTTGCAATAAATAGTCCAGTGTTTC 1312
```

```
RESULT 4
US-10-396-943-5
; Sequence 5, Application US/10396943
; Publication No. US20030158085A1
; GENERAL INFORMATION:
;  APPLICANT: Walker, Michael G.
;  APPLICANT:  Volkmuth, Wayne
;  APPLICANT:  Klinger, Tod M.
;  TITLE OF INVENTION: AQUAPORIN-8 VARIANT
;  FILE REFERENCE: PC-0012 CIP
;  CURRENT APPLICATION NUMBER: US/10/396,943
;  CURRENT FILING DATE:  2003-03-24
;  PRIOR APPLICATION NUMBER: US/09/610,906
;  PRIOR FILING DATE: 2000-07-06
;  PRIOR APPLICATION NUMBER: 09/226,994
;  PRIOR FILING DATE: 1999-01-07
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PERL Program
; SEQ ID NO 5
;   LENGTH: 1312
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. US20030158085A1 1804734CB1
;  PUBLICATION INFORMATION:
US-10-396-943-5

  Query Match           89.6%;  Score 1213.6;  DB 16;  Length 1312;
  Best Local Similarity  99.3%;  Pred. No. 0;
  Matches 1219;  Conservative    0;  Mismatches    9;  Indels    0;  Gaps    0;

Qy        122 TCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCA 181
              |||   | ||   |  ||||||||||||||||||||||||||||||||||||||||||||
Db         85 TCCTGATGTCTGGAGAGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCA 144

Qy        182 GGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCAT 241
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        145 GGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCAT 204

Qy        242 GTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTG 301
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        205 GTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTG 264

Qy        302 AGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGC 361
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        265 AGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGC 324

Qy        362 TCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGG 421
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        325 TCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGG 384

Qy        422 CAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGC 481
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        385 CAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGC 444

Qy        482 TGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCT 541
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        445 TGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCT 504

Qy        542 GGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGT 601
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        505 GGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGT 564

Qy        602 TGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCA 661
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        565 TGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCA 624

Qy        662 ATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATA 721
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        625 ATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATA 684

Qy        722 TCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTG 781
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        685 TCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTG 744

Qy        782 CGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTG 841
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        745 CGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTG 804

Qy        842 GCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCC 901
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        805 GCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCC 864

Qy        902 TGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCAC 961
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        865 TGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCAC 924

Qy        962 CTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGG 1021
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        925 CTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGG 984

Qy       1022 AGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAG 1081
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        985 AGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAG 1044

Qy       1082 GCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTG 1141
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1045 GCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTG 1104

Qy       1142 CCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAAT 1201
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1105 CCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAAT 1164

Qy       1202 GTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTT 1261
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1165 GTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTT 1224

Qy       1262 CTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCT 1321
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1225 CTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCT 1284

Qy       1322 CACTTTGCAATAAATAGTCCAGTGTTTC 1349
              |||||||||||||||||||||||||||||
Db       1285 CACTTTGCAATAAATAGTCCAGTGTTTC 1312
```

```
RESULT 5
US-09-925-299-67
; Sequence 67, Application US/09925299
; Patent No. US20020055627A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA102
;  CURRENT APPLICATION NUMBER: US/09/925,299
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05883
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 1556
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 67
;   LENGTH: 1410
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-925-299-67

  Query Match             89.6%;  Score 1213.4;  DB 9;  Length 1410;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1214;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy        140 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        111 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 170

Qy        200 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        171 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 230

Qy        260 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        231 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 290

Qy        320 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        291 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 350

Qy        380 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        351 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 410

Qy        440 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        411 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 470

Qy        500 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        471 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 530

Qy        560 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        531 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 590

Qy        620 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        591 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 650

Qy        680 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        651 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 710

Qy        740 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 799
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        711 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 770

Qy        800 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 859
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        771 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 830

Qy        860 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCA 919
              ||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||
Db        831 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCAGTGAAGCA 890

Qy        920 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 979
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        891 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 950

Qy        980 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1039
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        951 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1010

Qy       1040 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1099
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1011 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1070

Qy       1100 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1159
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1071 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1130

Qy       1160 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1219
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1131 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1190

Qy       1220 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1279
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1191 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1250

Qy       1280 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1339
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1251 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1310

Qy       1340 CCAGTGTTTCCTTCC 1354
              |||||||||||||||
Db       1311 CCAGTGTTTCCTTCC 1325


RESULT 6
US-09-925-299-67
; Sequence 67, Application US/09925299
; Publication No. US20030040617A9
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA102
;  CURRENT APPLICATION NUMBER: US/09/925,299
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05883
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 1556
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 67
;   LENGTH: 1410
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-925-299-67

  Query Match             89.6%;  Score 1213.4;  DB 10;  Length 1410;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1214;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy        140 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        111 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 170

Qy        200 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        171 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 230

Qy        260 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 319
```

```
Db        231 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 290
Qy        320 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 379
Db        291 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 350
Qy        380 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 439
Db        351 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 410
Qy        440 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 499
Db        411 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 470
Qy        500 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 559
Db        471 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 530
Qy        560 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 619
Db        531 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 590
Qy        620 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 679
Db        591 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 650
Qy        680 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 739
Db        651 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 710
Qy        740 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 799
Db        711 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 770
Qy        800 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 859
Db        771 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 830
Qy        860 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCA 919
Db        831 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCAGTGAAGCA 890
Qy        920 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 979
Db        891 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 950
Qy        980 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1039
Db        951 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1010
Qy       1040 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1099
Db       1011 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1070
Qy       1100 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1159
Db       1071 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1130
Qy       1160 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1219
Db       1131 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1190
Qy       1220 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1279
Db       1191 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1250
Qy       1280 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1339
Db       1251 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1310
Qy       1340 CCAGTGTTTCCTTCC 1354
```

```
Db        1311 CCAGTGTTTCCTTCC 1325
```

```
RESULT 7
US-10-023-896-40
; Sequence 40, Application US/10023896
; Publication No. US20030027776A1
; GENERAL INFORMATION:
;  APPLICANT: Victor Roschke
;  TITLE OF INVENTION: 29 Human Cancer Associated Proteins
;  FILE REFERENCE: PA004P1
;  CURRENT APPLICATION NUMBER: US/10/023,896
;  CURRENT FILING DATE:  2001-12-21
;  PRIOR APPLICATION NUMBER: unassigned
;  PRIOR FILING DATE: 2001-12-21
;  PRIOR APPLICATION NUMBER: PCT/US00/23794
;  PRIOR FILING DATE: 2000-08-30
;  PRIOR APPLICATION NUMBER: 60/152,296
;  PRIOR FILING DATE: 1999-09-03
;  PRIOR APPLICATION NUMBER: 60/158,003
;  PRIOR FILING DATE: 1999-10-06
;  NUMBER OF SEQ ID NOS: 138
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40
;   LENGTH: 1410
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-023-896-40

  Query Match             89.6%;  Score 1213.4;  DB 14;  Length 1410;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1214;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;
```

```
Qy        140 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 199
Db        111 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 170
Qy        200 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 259
Db        171 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 230
Qy        260 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 319
Db        231 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 290
Qy        320 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 379
Db        291 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 350
Qy        380 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 439
Db        351 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 410
Qy        440 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 499
Db        411 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 470
Qy        500 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 559
Db        471 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 530
Qy        560 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 619
Db        531 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 590
Qy        620 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 679
Db        591 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 650
Qy        680 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 739
Db        651 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 710
```

```
Qy        740 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 799
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        711 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 770

Qy        800 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 859
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        771 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 830

Qy        860 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCA 919
              |||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||
Db        831 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCAGTGAAGCA 890

Qy        920 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 979
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        891 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 950

Qy        980 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1039
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        951 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1010

Qy       1040 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1099
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1011 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1070

Qy       1100 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1159
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1071 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1130

Qy       1160 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1219
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1131 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1190

Qy       1220 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1279
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1191 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1250

Qy       1280 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1339
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1251 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1310

Qy       1340 CCAGTGTTTCCTTCC 1354
              |||||||||||||||
Db       1311 CCAGTGTTTCCTTCC 1325
```

RESULT 8
US-10-106-698-245
; Sequence 245, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 245
; LENGTH: 1410
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-245

Query Match 89.6%; Score 1213.4; DB 15; Length 1410;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1214; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy        140 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        111 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 170

Qy        200 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        171 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 230

Qy        260 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        231 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 290

Qy        320 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        291 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 350

Qy        380 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        351 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 410

Qy        440 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        411 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 470

Qy        500 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        471 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 530

Qy        560 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        531 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 590

Qy        620 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        591 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 650

Qy        680 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        651 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 710

Qy        740 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 799
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        711 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 770

Qy        800 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 859
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        771 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 830

Qy        860 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCA 919
              |||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||
Db        831 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCAGTGAAGCA 890

Qy        920 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 979
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        891 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 950

Qy        980 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1039
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        951 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1010

Qy       1040 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1099
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1011 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1070

Qy       1100 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1159
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1071 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1130

Qy       1160 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1219
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1131 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1190

Qy       1220 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1279
```

```
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1191 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1250

Qy       1280 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1339
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1251 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1310

Qy       1340 CCAGTGTTTCCTTCC 1354
              |||||||||||||||
Db       1311 CCAGTGTTTCCTTCC 1325
```

```
RESULT 9
US-10-216-408-16
; Sequence 16, Application US/10216408
; Publication No. US20030013159A1
;   GENERAL INFORMATION:
;        APPLICANT: COHEN, MAURICE
;                   COLPITTS, TRACEY L.
;                   FRIEDMAN, PAULA N.
;                   GRANADOS, EDWARD N.
;                   KLASS, MICHAEL R.
;                   RUSSELL, JOHN C.
;                   STROUPE, STEVEN D.
;        TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
;                            FOR DETECTING DISEASE OF THE GASTROINTESTINAL
;                            TRACT
;        NUMBER OF SEQUENCES: 27
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Abbott Laboratories
;             STREET: 100 Abbott Park Road
;             CITY: Abbott Park
;             STATE: IL
;             COUNTRY: USA
;             ZIP: 60064-3500
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Diskette
;             COMPUTER: IBM Compatible
;             OPERATING SYSTEM: DOS
;             SOFTWARE: FastSEQ for Windows Version 2.0
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/216,408
;             FILING DATE: 09-Aug-2002
;             CLASSIFICATION: &lt;Unknown&gt;
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/959,634
;             FILING DATE: &lt;Unknown&gt;
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Becker, Cheryl L.
;             REGISTRATION NUMBER: 35,441
;             REFERENCE/DOCKET NUMBER: 6188.US.01
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 847/935-1729
;             TELEFAX: 847/938-2623
;             TELEX: &lt;Unknown&gt;
;   INFORMATION FOR SEQ ID NO: 16:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 1314 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: double
;             TOPOLOGY: linear
;        MOLECULE TYPE: cDNA
;        SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-216-408-16

  Query Match             89.4%;  Score 1210.2;  DB 14;  Length 1314;
  Best Local Similarity   99.3%;  Pred. No. 0;
  Matches 1206;  Conservative    8;  Mismatches    1;  Indels    0;  Gaps    0;

Qy        140 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        100 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 159

Qy        200 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        160 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 219

Qy        260 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        220 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 279

Qy        320 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        280 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 339

Qy        380 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        340 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 399

Qy        440 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        400 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 459

Qy        500 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        460 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 519

Qy        560 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        520 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 579

Qy        620 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        580 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 639

Qy        680 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        640 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 699

Qy        740 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 799
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        700 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 759

Qy        800 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 859
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        760 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 819

Qy        860 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCA 919
              |||||||||||||||||||||||||||||||||||||||||||||||:||||||||||||
Db        820 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGSCTCGGTGAAGCA 879

Qy        920 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 979
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        880 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 939

Qy        980 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1039
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        940 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 999

Qy       1040 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1099
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1000 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1059

Qy       1100 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1159
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1060 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1119

Qy       1160 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1219
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1120 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1179

Qy       1220 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1279
              ||||||||||||||||||||||||||||||||||:||||:|||:|||||:||||||||||
Db       1180 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCAMCCCAWTTCYTGCTTRATTGCTTTGT 1239

Qy       1280 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1339
```

```
              |||||||:||||:|||||||||||||||||||||||||:||||||||||||||||||||
Db       1240 TGGGGGCYTGGCMACTTCCTTGCTTCTCAAGCTGACAATYCTCACTTTGCAATAAATAGT 1299

Qy       1340 CCAGTGTTTCCTTCC 1354
              |||||||||  |||||
Db       1300 CCAGTGTTTTCTTCC 1314


RESULT 10
US-10-158-646-49
; Sequence 49, Application US/10158646
; Publication No. US20030073105A1
; GENERAL INFORMATION:
;  APPLICANT: Lasek, Amy K.W.
;  APPLICANT:  Sornasse, Thierry
;  TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
;  FILE REFERENCE: PA-0030-1 US
;  CURRENT APPLICATION NUMBER: US/10/158,646
;  CURRENT FILING DATE:  2002-05-29
;  PRIOR APPLICATION NUMBER: 60/295,239
;  PRIOR FILING DATE: 2001-05-31
;  NUMBER OF SEQ ID NOS: 78
;  SOFTWARE: PERL Program
; SEQ ID NO 49
;   LENGTH: 1324
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. US20030073105A1 201901.4
US-10-158-646-49

  Query Match             88.9%;  Score 1203.4;  DB 14;  Length 1324;
  Best Local Similarity   98.9%;  Pred. No. 0;
  Matches 1222;  Conservative    0;  Mismatches   11;  Indels    2;  Gaps    1;

Qy        122 TCCCTTTTTCCCTACGGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCA 181
              |||   | ||   |  ||||||||||||||||||||||||||||||||||||||||||
Db         90 TCCTGATGTCTGGAGAGCAGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCA 149

Qy        182 GGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCAT 241
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        150 GGGAGCCGAGCGTGGGTGGCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCAT 209

Qy        242 GTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTG 301
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        210 GTCTGGTCGAACTGCTGGGCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTG 269

Qy        302 AGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCC--TGGCCCACGGGCTGGCTTTGGG 359
              |||||||||||||||||||||||||||||||||||    | ||||||||||||||||||
Db        270 AGAATGGGACGGACACTGGGCTGCTGCAGCCGGCCCCTGGCCCCACGGGCTGGCTTTGGG 329

Qy        360 GCTCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCT 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        330 GCTCGTGATTGCCACGCTGGGGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCT 389

Qy        420 GGCAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACA 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        390 GGCAGCCATGCTGATCGGAGGCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACA 449

Qy        480 GCTGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTT 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        450 GCTGCTCGGGGGGATGCTCGGGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTT 509

Qy        540 CTGGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGC 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        510 CTGGAATGCATCTGGGGCGGCCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGC 569

Qy        600 GTTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCAT 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        570 GTTGGTGGCAGAGATCATCCTGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCAT 629

Qy        660 CAATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGA 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        630 CAATGAGAAGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGA 689

Qy        720 TATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACC 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        690 TATCCTGGCTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACC 749

Qy        780 TGCGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        750 TGCGGTGGTGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGC 809

Qy        840 TGGCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCAT 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        810 TGGCCTGCTTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCAT 869

Qy        900 CCTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTC 959
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        870 CCTGAAGGCTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTC 929

Qy        960 ACCTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGA 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        930 ACCTGTCCCAGACTGAGGACAGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGA 989

Qy       1020 GGAGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGG 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        990 GGAGCGACCCCCTGCTTCCACTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGG 1049

Qy       1080 AGGCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGC 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1050 AGGCTCTAGGTTCTTGGAATTCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGC 1109

Qy       1140 TGCCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGA 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1110 TGCCCGCACTGCCCAGAGAGCAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGA 1169

Qy       1200 ATGTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCAT 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1170 ATGTCCCCGAGTTGGACAAGGAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCAT 1229

Qy       1260 TTCTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATT 1319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1230 TTCTTGCTTGATTGCTTTGTTGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATT 1289

Qy       1320 CTCACTTTGCAATAAATAGTCCAGTGTTTCCTTCC 1354
              |||||||||||||||||||||||||||||||||||
Db       1290 CTCACTTTGCAATAAATAGTCCAGTGTTTCCTTCC 1324


RESULT 11
US-10-023-896-11
; Sequence 11, Application US/10023896
; Publication No. US20030027776A1
; GENERAL INFORMATION:
;  APPLICANT: Victor Roschke
;  TITLE OF INVENTION: 29 Human Cancer Associated Proteins
;  FILE REFERENCE: PA004P1
;  CURRENT APPLICATION NUMBER: US/10/023,896
;  CURRENT FILING DATE:  2001-12-21
;  PRIOR APPLICATION NUMBER: unassigned
;  PRIOR FILING DATE: 2001-12-21
;  PRIOR APPLICATION NUMBER: PCT/US00/23794
;  PRIOR FILING DATE: 2000-08-30
;  PRIOR APPLICATION NUMBER: 60/152,296
;  PRIOR FILING DATE: 1999-09-03
;  PRIOR APPLICATION NUMBER: 60/158,003
;  PRIOR FILING DATE: 1999-10-06
;  NUMBER OF SEQ ID NOS: 138
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
;   LENGTH: 1388
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
```

```
;   NAME/KEY: misc_feature
;   LOCATION: (1388)..(1388)
;   OTHER INFORMATION: n equals a,t,g, or c
US-10-023-896-11

  Query Match             88.8%;  Score 1202;  DB 14;  Length 1388;
  Best Local Similarity   99.8%;  Pred. No. 0;
  Matches 1213;  Conservative    1;  Mismatches    1;  Indels    1;  Gaps    1;

Qy        140 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        120 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 179

Qy        200 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        180 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 239

Qy        260 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        240 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 299

Qy        320 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        300 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 359

Qy        380 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        360 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 419

Qy        440 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        420 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 479

Qy        500 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        480 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 539

Qy        560 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        540 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 599

Qy        620 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        600 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 659

Qy        680 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        660 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 719

Qy        740 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 799
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        720 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 779

Qy        800 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 859
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        780 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 839

Qy        860 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCA 919
              ||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||||
Db        840 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCAGTGAAGCA 899

Qy        920 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 979
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        900 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 959

Qy        980 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1039
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        960 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1019

Qy       1040 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1099
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1020 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1079

Qy       1100 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1159
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1080 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1139

Qy       1160 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1219
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1140 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1199

Qy       1220 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1279
              ||||||||||||||||||||||||||||||||||||||||||||:||||||||||||||||
Db       1200 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTKCTTGATTGCTTTGT 1259

Qy       1280 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCT-CACTTTGCAATAAATAG 1338
              |||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||||
Db       1260 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTGCACTTTGCAATAAATAG 1319

Qy       1339 TCCAGTGTTTCCTTCC 1354
              ||||||||||||||||
Db       1320 TCCAGTGTTTCCTTCC 1335


RESULT 12
US-10-106-698-1986
; Sequence 1986, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
;  FILE REFERENCE: PA005P1
;  CURRENT APPLICATION NUMBER: US/10/106,698
;  CURRENT FILING DATE:  2002-03-27
;  PRIOR APPLICATION NUMBER: PCT/US00/26524
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US 60/157,137
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: US 60/163,280
;  PRIOR FILING DATE: 1999-11-03
;  NUMBER OF SEQ ID NOS: 8564
;  SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 1986
;   LENGTH: 1712
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1688)..(1688)
;   OTHER INFORMATION: n equals a,t,g, or c
;   NAME/KEY: misc_feature
;   LOCATION: (1692)..(1692)
;   OTHER INFORMATION: n equals a,t,g, or c
;   NAME/KEY: misc_feature
;   LOCATION: (1697)..(1697)
;   OTHER INFORMATION: n equals a,t,g, or c
US-10-106-698-1986

  Query Match             88.8%;  Score 1202;  DB 15;  Length 1712;
  Best Local Similarity   99.8%;  Pred. No. 0;
  Matches 1213;  Conservative    1;  Mismatches    1;  Indels    1;  Gaps    1;

Qy        140 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        388 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 447

Qy        200 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        448 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 507

Qy        260 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        508 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 567

Qy        320 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Db        568 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 627

Qy        380 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        628 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 687

Qy        440 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        688 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 747

Qy        500 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        748 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 807

Qy        560 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        808 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 867

Qy        620 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        868 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 927

Qy        680 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        928 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 987

Qy        740 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 799
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        988 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 1047

Qy        800 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 859
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1048 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 1107

Qy        860 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCA 919
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1108 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCAGTGAAGCA 1167

Qy        920 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 979
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1168 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 1227

Qy        980 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1039
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1228 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1287

Qy       1040 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1099
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1288 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1347

Qy       1100 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1159
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1348 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1407

Qy       1160 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1219
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1408 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1467

Qy       1220 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1279
              ||||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db       1468 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTKCTTGATTGCTTTGT 1527

Qy       1280 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCT-CACTTTGCAATAAATAG 1338
              |||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||||
Db       1528 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTGCACTTTGCAATAAATAG 1587

Qy       1339 TCCAGTGTTTCCTTCC 1354
              ||||||||||||||||
Db       1588 TCCAGTGTTTCCTTCC 1603

RESULT 13
US-10-295-027-459

; Sequence 459, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
;  APPLICANT: Afar, Daniel
;  APPLICANT:  Aziz, Natasha
;  APPLICANT:  Ginsberg, Wendy M.
;  APPLICANT:  Gish, Kurt C.
;  APPLICANT:  Glynne, Richard
;  APPLICANT:  Hevezi, Peter A.
;  APPLICANT:  Mack, David H.
;  APPLICANT:  Murray, Richard
;  APPLICANT:  Watson, Susan R.
;  APPLICANT:  Eos Biotechnology, Inc.
;  TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
;  TITLE OF INVENTION:  Methods of Screening for Modulators of Cancer
;  FILE REFERENCE: 018501-012500US
;  CURRENT APPLICATION NUMBER: US/10/295,027
;  CURRENT FILING DATE:  2002-11-13
;  PRIOR APPLICATION NUMBER: US 09/663,733
;  PRIOR FILING DATE: 2000-09-15
;  PRIOR APPLICATION NUMBER: US 60/350,666
;  PRIOR FILING DATE: 2001-11-13
;  PRIOR APPLICATION NUMBER: US 60/335,394
;  PRIOR FILING DATE: 2001-11-15
;  PRIOR APPLICATION NUMBER: US 60/332,464
;  PRIOR FILING DATE: 2001-11-21
;  PRIOR APPLICATION NUMBER: US 60/334,393
;  PRIOR FILING DATE: 2001-11-29
;  PRIOR APPLICATION NUMBER: US 60/340,376
;  PRIOR FILING DATE: 2001-12-14
;  PRIOR APPLICATION NUMBER: US 60/347,211
;  PRIOR FILING DATE: 2002-01-08
;  PRIOR APPLICATION NUMBER: US 60/347,349
;  PRIOR FILING DATE: 2002-01-10
;  PRIOR APPLICATION NUMBER: US 60/355,250
;  PRIOR FILING DATE: 2002-02-08
;  PRIOR APPLICATION NUMBER: US 60/356,714
;  PRIOR FILING DATE: 2002-02-13
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1386
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 459
;   LENGTH: 1309
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-295-027-459

  Query Match            88.7%;  Score 1200.4;  DB 17;  Length 1309;
  Best Local Similarity  99.8%;  Pred. No. 0;
  Matches 1212;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy        140 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         95 AGATAGCCATGTGTGAGCCTGAATTTGGCAATGACAAGGCCAGGGAGCCGAGCGTGGGTG 154

Qy        200 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        155 GCAGGTGGCGAGTGTCCTGGTACGAACGGTTTGTGCAGCCATGTCTGGTCGAACTGCTGG 214

Qy        260 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 319
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        215 GCTCTGCTCTCTTCATCTTCATCGGGTGCCTGTCGGTCATTGAGAATGGGACGGACACTG 274

Qy        320 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        275 GGCTGCTGCAGCCGGCCCTGGCCCACGGGCTGGCTTTGGGGCTCGTGATTGCCACGCTGG 334

Qy        380 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        335 GGAATATCAGTGGTGGACACTTCAACCCTGCGGTGTCCCTGGCAGCCATGCTGATCGGAG 394

Qy        440 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Db        395 GCCTCAACCTGGTGATGCTCCTCCCGTACTGGGTCTCACAGCTGCTCGGGGGGATGCTCG 454

Qy        500 GGGCTGCCTTGGCCAAGGCGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 559
              |||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||
Db        455 GGGCTGCCTTGGCCAAGGTGGTGAGTCCTGAGGAGAGGTTCTGGAATGCATCTGGGGCGG 514

Qy        560 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        515 CCTTTGTGACAGTCCAGGAGCAGGGGCAGGTGGCAGGGGCGTTGGTGGCAGAGATCATCC 574

Qy        620 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        575 TGACGACGCTGCTGGCCCTGGCTGTATGCATGGGTGCCATCAATGAGAAGACAAAGGGCC 634

Qy        680 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        635 CTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGGCTGGGGGCCCTG 694

Qy        740 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 799
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        695 TGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGGTGGCCAACCACT 754

Qy        800 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 859
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        755 GGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGCTTGTTGGACTGC 814

Qy        860 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCA 919
              |||||||||||||||||||||||||||||||||||||||||||||||||||| ||||
Db        815 TCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTG-AGCA 873

Qy        920 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 979
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        874 GAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGAC 933

Qy        980 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 1039
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        934 AGGGGAGTTCCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCA 993

Qy       1040 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1099
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        994 CTGCTTGGGCCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAAT 1053

Qy       1100 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1159
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1054 TCCTTTGTGCTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAG 1113

Qy       1160 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1219
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1114 CAGTGCAAACACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAG 1173

Qy       1220 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1279
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1174 GAGGCTGTTTCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGT 1233

Qy       1280 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1339
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1234 TGGGGGCCTGGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGT 1293

Qy       1340 CCAGTGTTTCCTTC 1353
              ||||||||||||||
Db       1294 CCAGTGTTTCCTTC 1307


RESULT 14
US-10-396-943-6/c
; Sequence 6, Application US/10396943
; Publication No. US20030158085A1
; GENERAL INFORMATION:
;  APPLICANT: Walker, Michael G.
;  APPLICANT:  Volkmuth, Wayne
;  APPLICANT:  Klinger, Tod M.
;  TITLE OF INVENTION: AQUAPORIN-8 VARIANT
;  FILE REFERENCE: PC-0012 CIP
;  CURRENT APPLICATION NUMBER: US/10/396,943
;  CURRENT FILING DATE:  2003-03-24
;  PRIOR APPLICATION NUMBER: US/09/610,906
;  PRIOR FILING DATE: 2000-07-06
;  PRIOR APPLICATION NUMBER: 09/226,994
;  PRIOR FILING DATE: 1999-01-07
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PERL Program
; SEQ ID NO 6
;   LENGTH: 562
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. US20030158085A1 227165F1
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: 525, 550
;   OTHER INFORMATION: a, t, c, g, or other
;  PUBLICATION INFORMATION:
US-10-396-943-6

  Query Match           35.0%;  Score 473.8;  DB 16;  Length 562;
  Best Local Similarity  95.4%;  Pred. No. 4.6e-135;
  Matches  521;  Conservative    0;  Mismatches   18;  Indels    7;  Gaps    3;

Qy        816 CTACTGGCTGGGCCCA--CTCCTGGCTGGCCTGCTTGTTGG---ACTGCTCATTAGGTGC 870
              |||||||||||||||    | |||||||||||||  | |       ||||||||||||
Db        546 CTACTGGCTGGGCCCAACTCCNTGGCTGGCCTGCTTTGTTGGAACTGCCTCATTAGGTGC 487

Qy        871 TTCATTGGA--GATGGGAAGACCCGCCTCATCCTGAAGGCTCGGTGAAGCAGAGCTCGTG 928
              |||||||||     || |||||||||||||||||||| ||||||||| ||||||||||||
Db        486 TTCATTGGAAGATGGGAAAGACCCGCCTCATCCTGAAGCCTCGGTGAAACAGAGCTCGTG 427

Qy        929 GGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTGAGGACAGGGGAGTT 988
              |||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||
Db        426 GGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCCCAGACTCAGGACAGGGGAGTT 367

Qy        989 CCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCACTGCTTGGG 1048
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        366 CCTGCATTTCCTGCCAGGGCAGAGGCCCAGAGGAGCGACCCCCTGCTTCCACTGCTTGGG 307

Qy       1049 CCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAATTCCTTTGTG 1108
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        306 CCTGCTTTCTCAGATAGACTGACTGCTGAGGAGGCTCTAGGTTCTTGGAATTCCTTTGTG 247

Qy       1109 CTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAGCAGTGCAAA 1168
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         246 CTCATCAGAGACCCCAGCCTGGGGAACACGCTGCCCGCACTGCCCAGAGAGCAGTGCAAA 187

Qy       1169 CACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAGGAGGCTGTT 1228
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         186 CACCACAACACGAGCGTGTTTCTTGAGAGGAATGTCCCCGAGTTGGACAAGGAGGCTGTT 127

Qy       1229 TCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTGCTTGATTGCTTTGTTGGGGGCCT 1288
              ||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||
Db         126 TCTGCACATCAGCTCATTTCCCGCACCCCATTTCTTTCTTGATTGCTTTGTTGGGGGCCT 67

Qy       1289 GGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGTCCAGTGTTT 1348
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          66 GGCCACTTCCTTGCTTCTCAAGCTGACAATTCTCACTTTGCAATAAATAGTCCAGTGTTT 7

Qy       1349 CCTTCC 1354
              ||||||
Db           6 CCTTCC 1


RESULT 15
US-09-803-719-2329
; Sequence 2329, Application US/09803719
; Publication No. US20030044783A1
; GENERAL INFORMATION:
;  APPLICANT: Williams, Lewis T.
```

```
;  APPLICANT:  Escobedo, Jaime
;  APPLICANT:  Innis, Michael A.
;  APPLICANT:  Garcia, Pablo Dominiguez
;  APPLICANT:  Sudduth-Klinger, Julie
;  APPLICANT:  Reinhard, Christoph
;  APPLICANT:  Giese, Klaus
;  APPLICANT:  Randazzo, Filippo
;  APPLICANT:  Kennedy, Giulia C.
;  APPLICANT:  Pot, David
;  APPLICANT:  Kassam, Altaf
;  APPLICANT:  Lamson, George
;  APPLICANT:  Drmanac, Radoje
;  APPLICANT:  Crkvenjakov, Radomir
;  APPLICANT:  Dickson, Mark
;  APPLICANT:  Drmanac, Snezana
;  APPLICANT:  Labat, Ivan
;  APPLICANT:  Leshkowitz, Dena
;  APPLICANT:  Kita, David
;  APPLICANT:  Garcia, Veronica
;  APPLICANT:  Jones, Lee William
;  APPLICANT:  Stache-Crain, Birgit
;  TITLE OF INVENTION: Human Genes and Gene Products
;  FILE REFERENCE: 1624.002
;  CURRENT APPLICATION NUMBER: US/09/803,719
;  CURRENT FILING DATE:  2001-03-09
;  PRIOR APPLICATION NUMBER: 60/188,609
;  PRIOR FILING DATE: 2000-03-09
;  NUMBER OF SEQ ID NOS: 2396
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2329
;   LENGTH: 321
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-803-719-2329

  Query Match             23.3%;  Score 315.2;  DB 10;  Length 321;
  Best Local Similarity   99.1%;  Pred. No. 2.4e-86;
  Matches  317;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy        668 AGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGG 727
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 AGACAAAGGGCCCTCTGGCCCCGTTCTCCATCGGCTTTGCCGTCACCGTGGATATCCTGG 60

Qy        728 CTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGG 787
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTGGGGGCCCTGTGTCTGGAGGCTGCATGAATCCCGCCCGTGCTTTTGGACCTGCGGTGG 120

Qy        788 TGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGC 847
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TGGCCAACCACTGGAACTTCCACTGGATCTACTGGCTGGGCCCACTCCTGGCTGGCCTGC 180

Qy        848 TTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGG 907
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TTGTTGGACTGCTCATTAGGTGCTTCATTGGAGATGGGAAGACCCGCCTCATCCTGAAGC 240

Qy        908 CTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCC 967
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 CTCGGTGAAGCAGAGCTCGTGGGATTCCTGCTGCTCCAGGTGTCCTCAGCTCACCTGTCC 300

Qy        968 CAGACTGAGGACAGGGGAGT 987
              |||||| | ||||||||||||
Db        301 CAGACTCAAGACAGGGGAGT 320


Search completed: February  7, 2005, 03:35:26
Job time : 752.327 secs
```

THIS PAGE LEFT BLANK

THIS PAGE LEFT BLANK